1/29

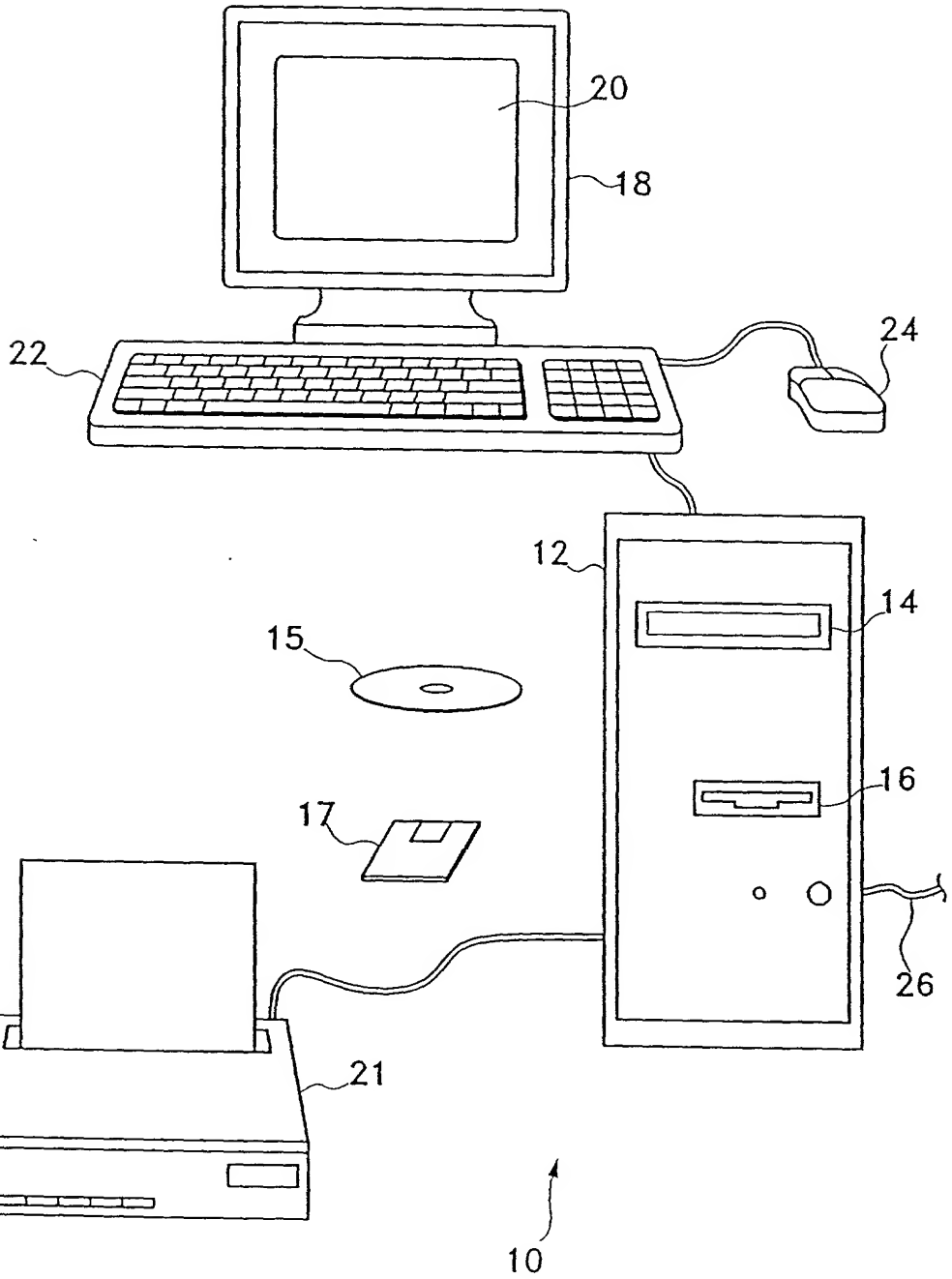
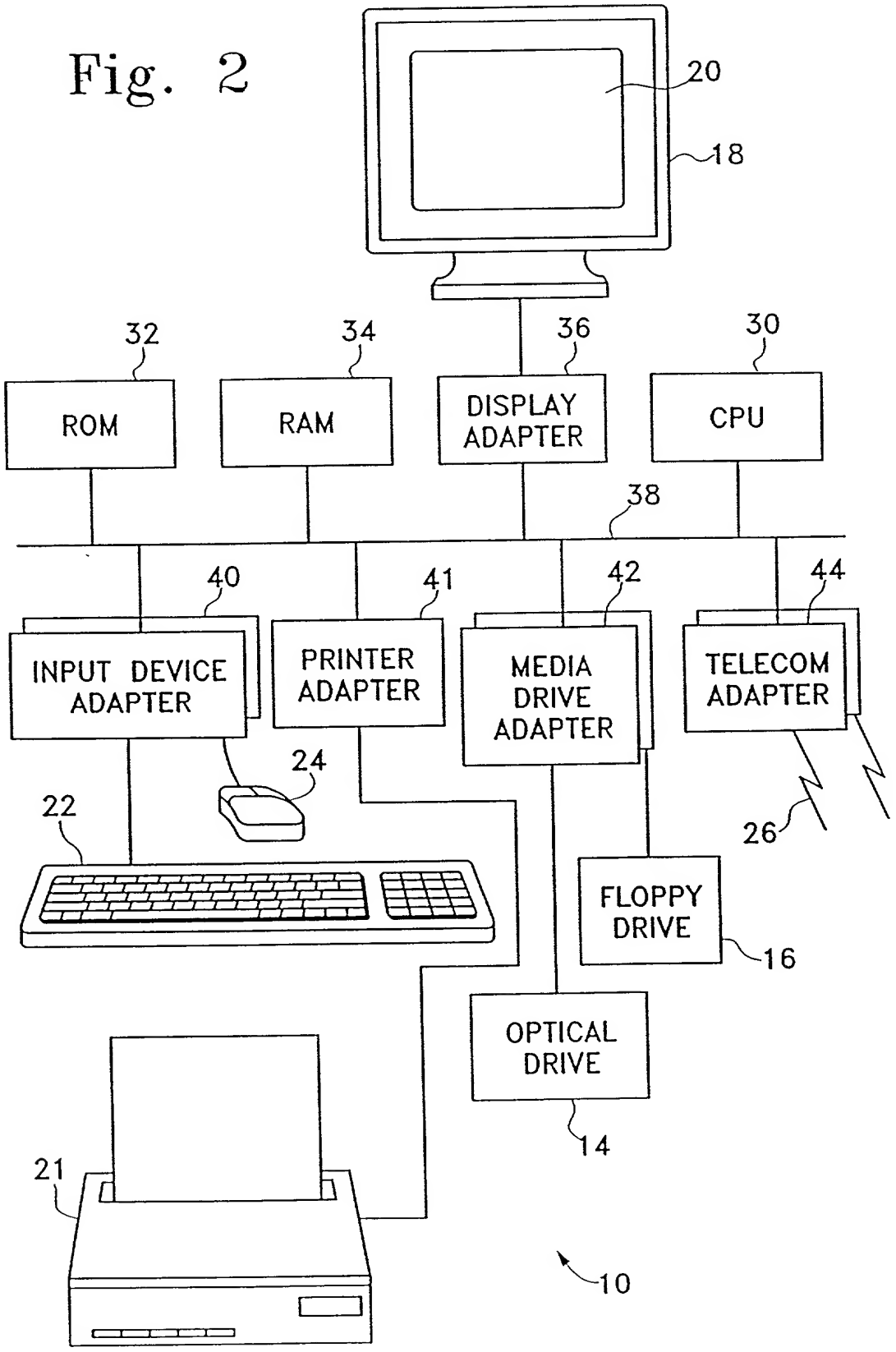
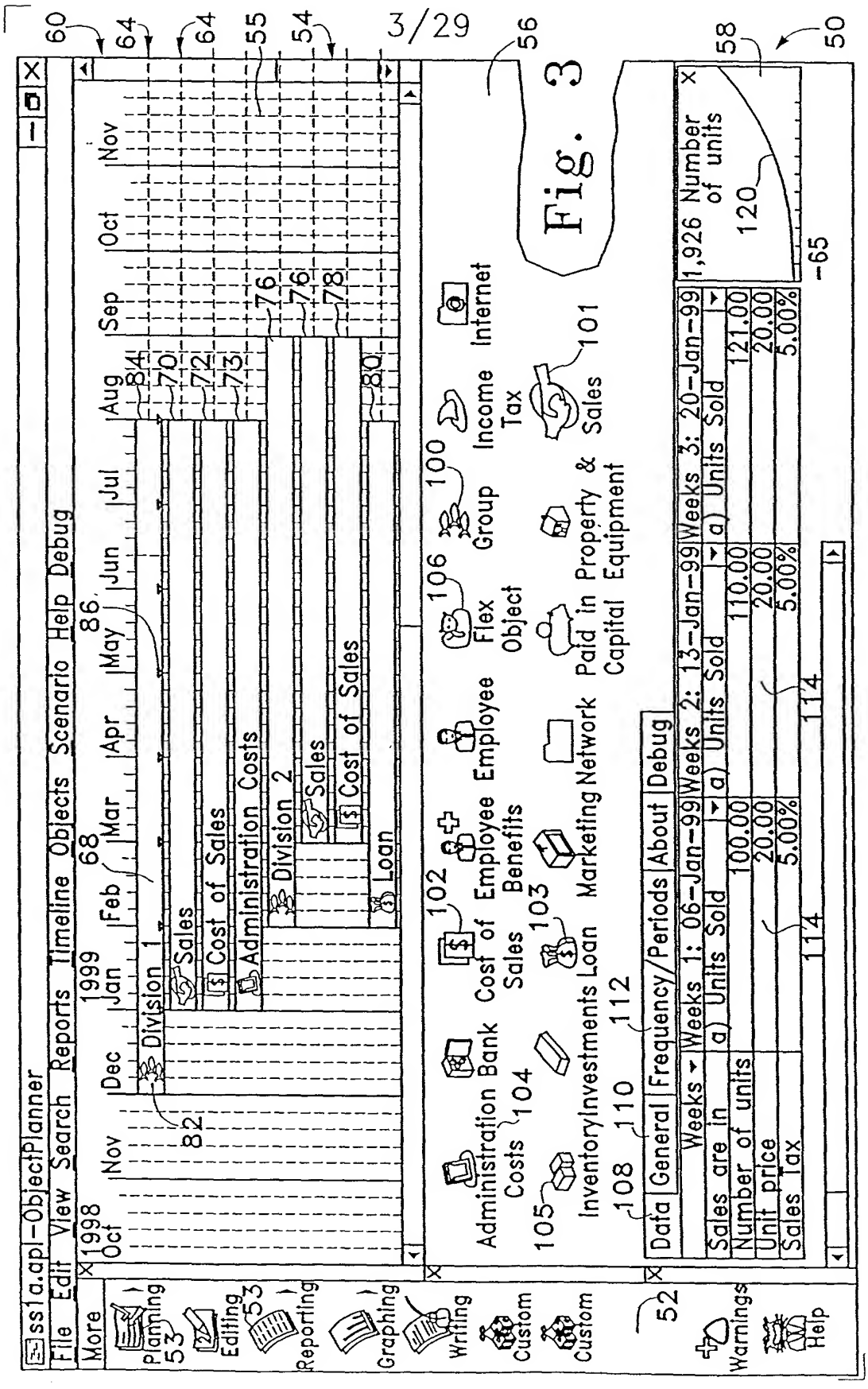


Fig. 1

2/29

Fig. 2


20
18
32
34
36
30
ROM
RAM
DISPLAY ADAPTER
CPU
38
40
41
42
44
INPUT DEVICE ADAPTER
PRINTER ADAPTER
MEDIA DRIVE ADAPTER
TELECOM ADAPTER
24
22
26
FLOPPY DRIVE
16
OPTICAL DRIVE
14
21
10


3/29
Fig. 3
ss1a.apl–ObjectPlanner
File Edit View Search Reports Timeline Objects Scenario Help Debug
More
Planning
Editing
Reporting
Graphing
Writing
Custom
Custom
Warnings
Help
Nov Dec 1998 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov 1999
Division 1
Sales
Cost of Sales
Administration Costs
Division 2
Sales
Cost of Sales
Loan
Administration Costs
Inventory
Investments
Loan
Cost of Sales
Employee Benefits
Employee
Marketing
Network
Flex Object
Paid in Capital
Property & Equipment
Group
Income Tax
Sales
Internet
Data | General | Frequency/Periods | About | Debug
Weeks 1: 06–Jan–99 | Weeks 2: 13–Jan–99 | Weeks 3: 20–Jan–99
Sales are in | a) Units Sold | a) Units Sold | a) Units Sold
Number of units | 100.00 | 110.00 | 121.00
Unit price | 20.00 | 20.00 | 20.00
Sales Tax | 5.00% | 5.00% | 5.00%
1,926 Number of units
120
50
52
53
54
55
56
58
60
64
65
68
70
72
73
76
78
80
82
84
86
100
101
102
103
104
105
106
108
110
112
114

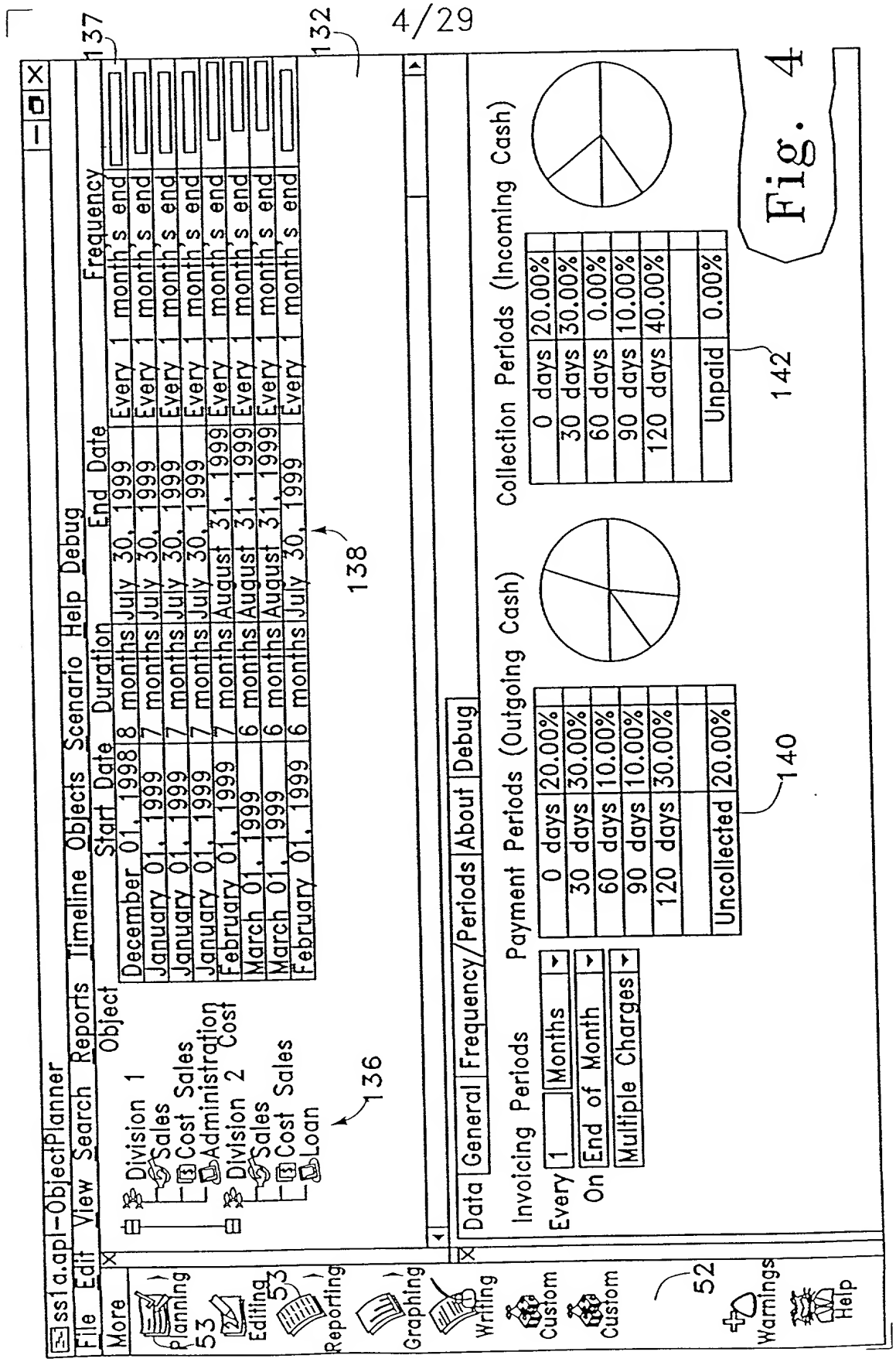

4/29
ss1a.apl-ObjectPlanner
File Edit View Search Reports Timeline Objects Scenario Help Debug
More
Planning
Editing
Reporting
Graphing
Writing
Custom
Custom
Warnings
Help
53
53
52
Object
Start Date
Duration
End Date
Frequency
Division 1
Sales
Cost Sales
Administration Cost
Division 2
Sales
Cost Sales
Loan
December 01, 1998 8 months July 30, 1999 Every 1 month's end
January 01, 1999 7 months July 30, 1999 Every 1 month's end
January 01, 1999 7 months July 30, 1999 Every 1 month's end
January 01, 1999 7 months July 30, 1999 Every 1 month's end
February 01, 1999 7 months August 31, 1999 Every 1 month's end
March 01, 1999 6 months August 31, 1999 Every 1 month's end
March 01, 1999 6 months August 31, 1999 Every 1 month's end
February 01, 1999 6 months July 30, 1999 Every 1 month's end
132
136
137
138
Data General Frequency/Periods About Debug
Invoicing Periods
Every 1 Months
On End of Month
Multiple Charges
Payment Periods (Outgoing Cash)
0 days 20.00%
30 days 30.00%
60 days 10.00%
90 days 10.00%
120 days 30.00%
Uncollected 20.00%
140
Collection Periods (Incoming Cash)
0 days 20.00%
30 days 30.00%
60 days 0.00%
90 days 10.00%
120 days 40.00%
Unpaid 0.00%
142

Fig. 4

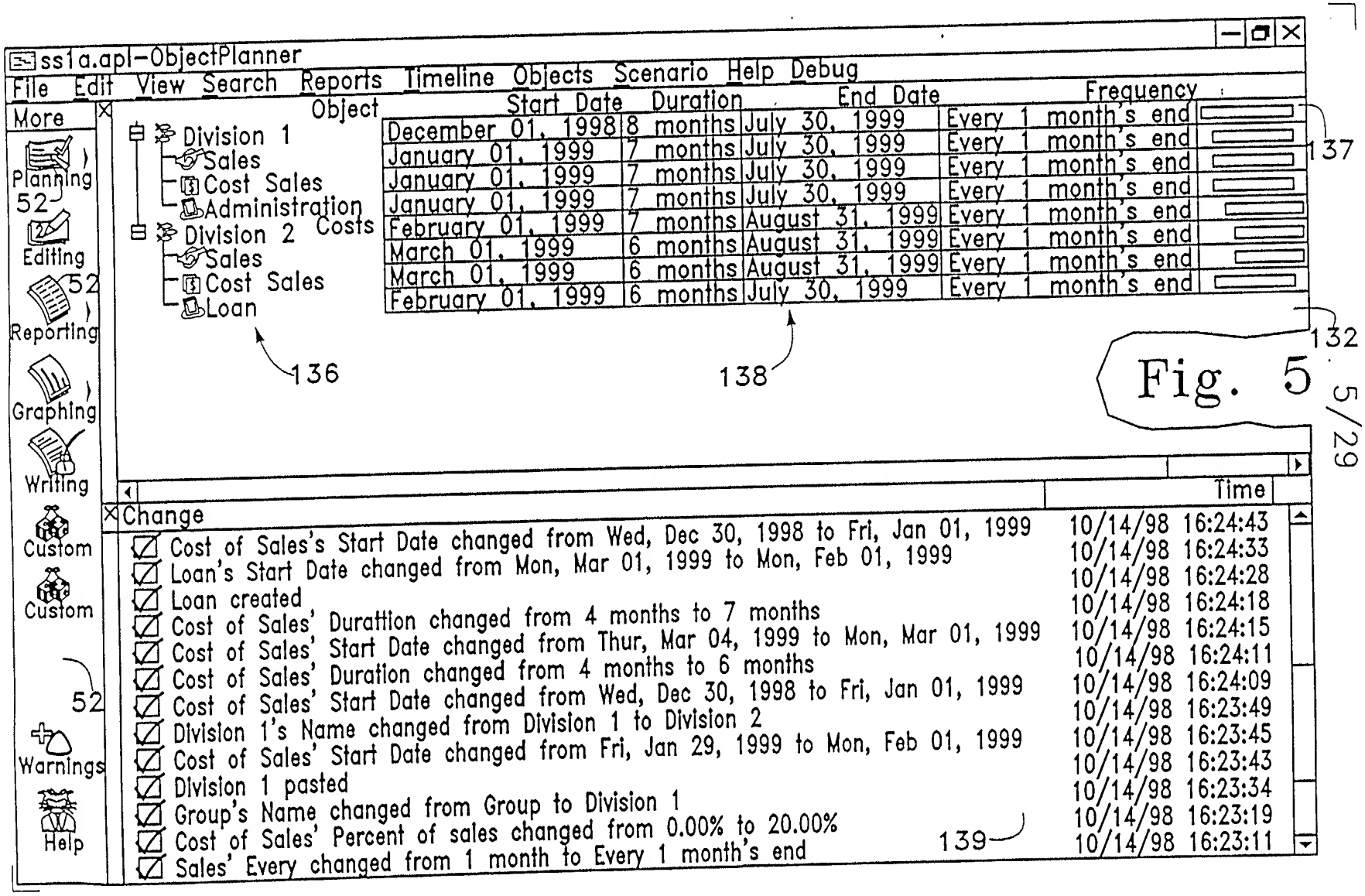

ss1a.apl-ObjectPlanner
File Edit View Search Reports Timeline Objects Scenario Help Debug
More
Planning
52
Editing
52
Reporting
Graphing
Writing
Custom
Custom
52
Warnings
Help
Object
Division 1
Sales
Cost Sales
Administration
Division 2 Costs
Sales
Cost Sales
Loan
136
Start Date
Duration
End Date
Frequency
December 01, 1998 | 8 months | July 30, 1999 | Every 1 month's end
January 01, 1999 | 7 months | July 30, 1999 | Every 1 month's end
January 01, 1999 | 7 months | July 30, 1999 | Every 1 month's end
January 01, 1999 | 7 months | July 30, 1999 | Every 1 month's end
February 01, 1999 | 7 months | August 31, 1999 | Every 1 month's end
March 01, 1999 | 6 months | August 31, 1999 | Every 1 month's end
March 01, 1999 | 6 months | August 31, 1999 | Every 1 month's end
February 01, 1999 | 6 months | July 30, 1999 | Every 1 month's end
137
132
138
Change
Time
Cost of Sales's Start Date changed from Wed, Dec 30, 1998 to Fri, Jan 01, 1999 10/14/98 16:24:43
Loan's Start Date changed from Mon, Mar 01, 1999 to Mon, Feb 01, 1999 10/14/98 16:24:33
Loan created 10/14/98 16:24:28
Cost of Sales' Durattion changed from 4 months to 7 months 10/14/98 16:24:18
Cost of Sales' Start Date changed from Thur, Mar 04, 1999 to Mon, Mar 01, 1999 10/14/98 16:24:15
Cost of Sales' Duration changed from 4 months to 6 months 10/14/98 16:24:11
Cost of Sales' Start Date changed from Wed, Dec 30, 1998 to Fri, Jan 01, 1999 10/14/98 16:24:09
Division 1's Name changed from Division 1 to Division 2 10/14/98 16:23:49
Cost of Sales' Start Date changed from Fri, Jan 29, 1999 to Mon, Feb 01, 1999 10/14/98 16:23:45
Division 1 pasted 10/14/98 16:23:43
Group's Name changed from Group to Division 1 10/14/98 16:23:34
Cost of Sales' Percent of sales changed from 0.00% to 20.00% 10/14/98 16:23:19
Sales' Every changed from 1 month to Every 1 month's end 10/14/98 16:23:11
139

Fig. 5

Fig. 6

ss1a.apl–ObjectPlanner

File Edit View Search Reports Timeline Objects Scenario Help Debug

More

Planning 53

Editing 53

Reporting

Graphing

Writing

Custom

Custom

52

Warnings

Help

My Business
INCOME FORECAST
FOR THE PERIOD ENDED Friday, September 29, 2000

	29-Jan-99	26-Feb-99	31-Mar-99	30-Apr-99	31-May-99	30-Jun-99	30-Jul-99
	$	$	$	$	$	$	$
REVENUE							
Division 1 Sales Sales	300.00	270.00	243.00	218.70	196.83	177.15	159.43
Division 2 Sales Sales			673.49	1,037.50	1,449.95	2,223.97	3,581.72
TOTAL REVENUE	$300.00	$270.00	$916.49	$1,256.20	$1,646.78	$2,401.11	$3,741.15
COST OF GOODS AND SERVICES							
Cost of materials	60.00	54.00	183.30	251.24	329.36	480.22	748.23
Production payroll		2,500.00	2,500.00	2,500.00	2,500.00	2,500.00	2,500.00
Direct costs							
TOTAL COST OF SALES	$60.00	$2,554.00	$2,683.30	$2,751.24	$2,829.36	$2.980.22	$3,248.23
GROSS PROFIT	$240.00	($2,284.00)	($1,766.81)	($1,495.04)	($1,182.57)	($579.11)	$492.92
TOTAL ADMINISTRATION EXPENSES	$145.00	$145.00	$145.00	$145.00	$145.00	$145.00	$145.00
TOTAL OPERATING EXPENSES	$145.00	$145.00	$145.00	$145.00	$145.00	$145.00	$145.00
NET INCOME	$95.00	($2,429.00)	($1,911.81)	($1,640.04)	($1,327.57)	($724.11)	$347.92
CUMULATIVE NET INCOME	$95.00	($2,334.00)	($4,245.81)	($5,885.85)	($7,213.43)	($7,937.54)	($7,589.61)

6/29

150

7/29

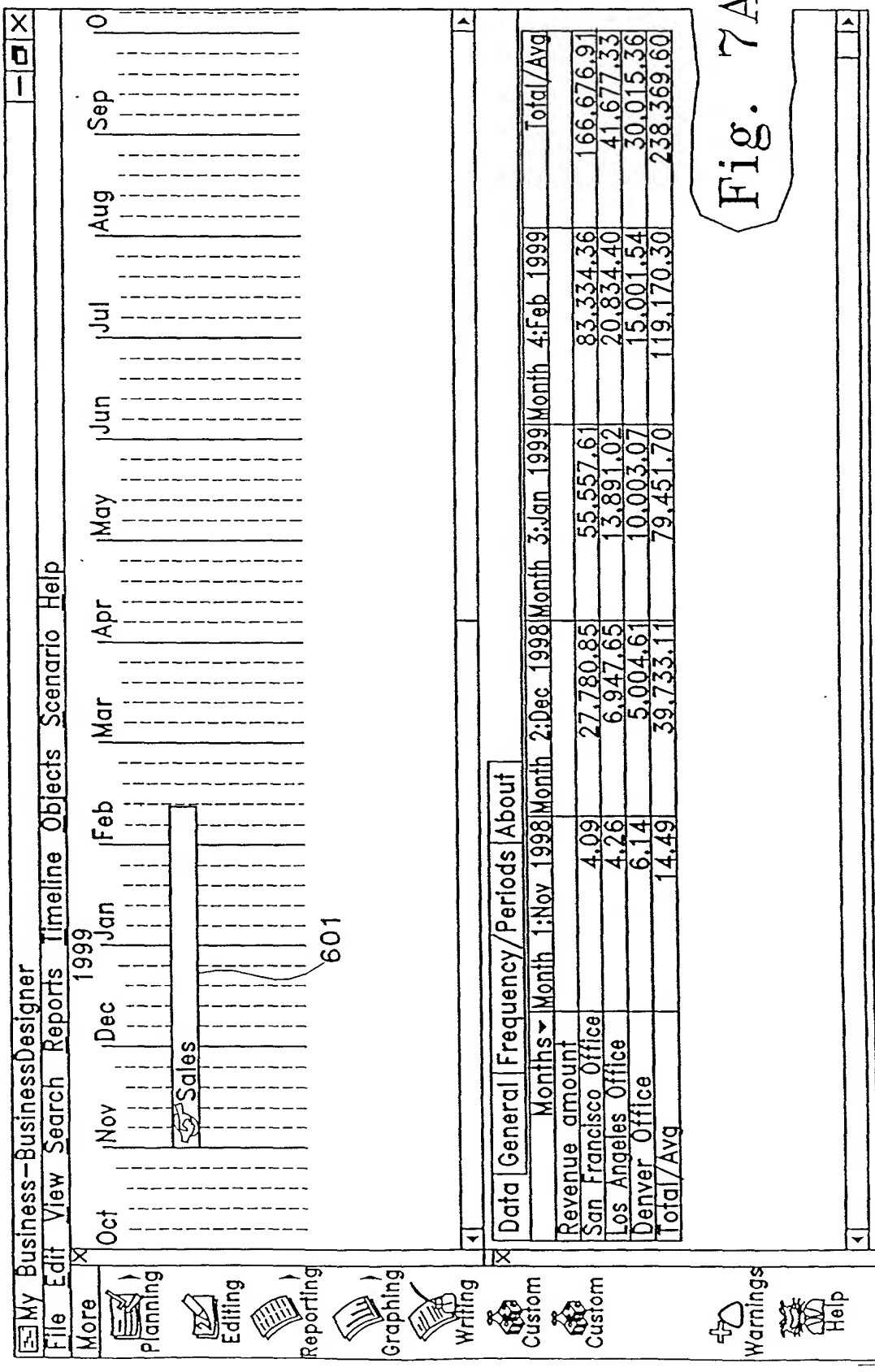

My Business-BusinessDesigner
File Edit View Search Reports Timeline Objects Scenario Help
More
Planning
Editing
Reporting
Graphing
Writing
Custom
Custom
Warnings
Help
1999
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
0
Sales
601
Data
General
Frequency/Periods
About
Months
Month 1:Nov 1998
Month 2:Dec 1998
Month 3:Jan 1999
Month 4:Feb 1999
Total/Avg
Revenue amount
San Francisco Office 4.09 27,780.85 55,557.61 83,334.36 166,676.91
Los Angeles Office 4.26 6,947.65 13,891.02 20,834.40 41,677.33
Denver Office 6.14 5,004.61 10,003.07 15,001.54 30,015.36
Total/Avg 14.49 39,733.11 79,451.70 119,170.30 238,369.60

Fig. 7A

8/29

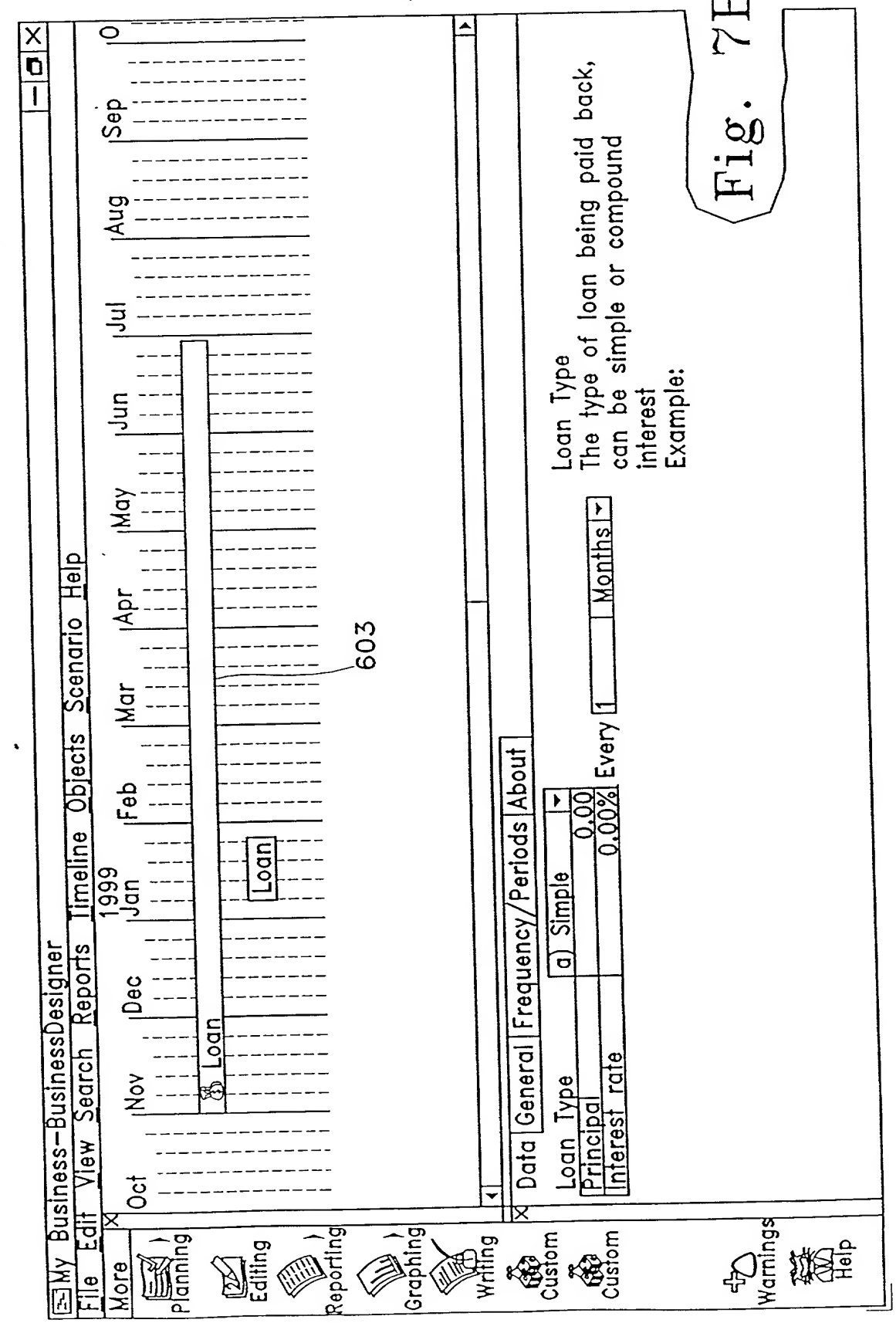
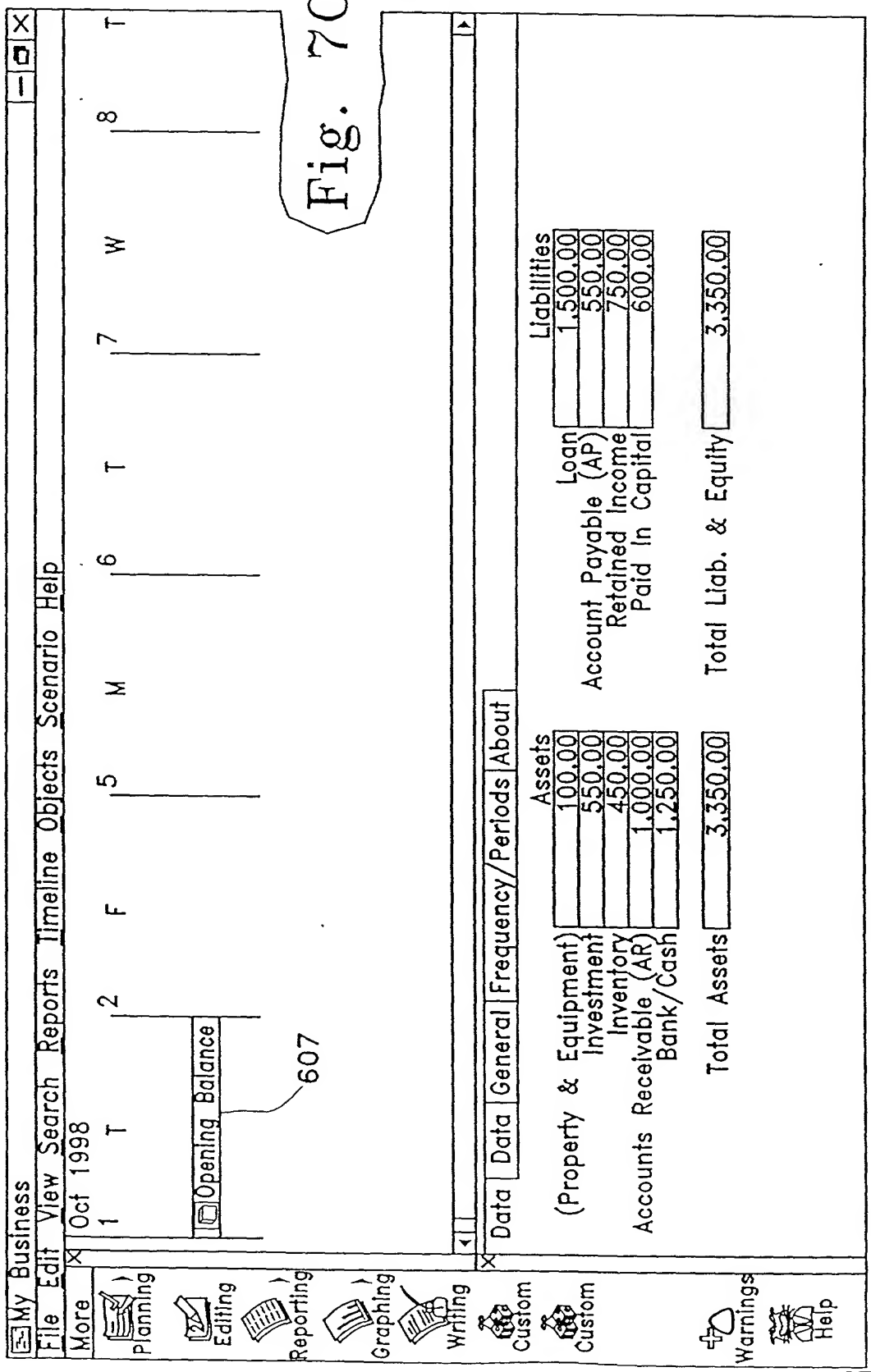

My Business-BusinessDesigner
File Edit View Search Reports Timeline Objects Scenario Help
More
Planning
Editing
Reporting
Graphing
Writing
Custom
Custom
Warnings
Help
1999
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
0
Loan
Loan
603
Data General Frequency/Periods About
Loan Type
Principal
Interest rate
a) Simple
0.00
0.00%
Every
1
Months
Loan Type
The type of loan being paid back, can be simple or compound interest
Example:

Fig. 7B


9/29
Fig. 7C
My Business
File Edit View Search Reports Timeline Objects Scenario Help
More
Planning
Editing
Reporting
Graphing
Writing
Custom
Custom
Warnings
Help
Oct 1998
1 T 2 F 5 M 6 T 7 W 8 T
Opening Balance
607
Data Data General Frequency/Periods About
Assets
(Property & Equipment) 100.00
Investment 550.00
Inventory 450.00
Accounts Receivable (AR) 1,000.00
Bank/Cash 1,250.00
Total Assets 3,350.00
Liabilities
Loan 1,500.00
Account Payable (AP) 550.00
Retained Income 750.00
Paid In Capital 600.00
Total Liab. & Equity 3,350.00

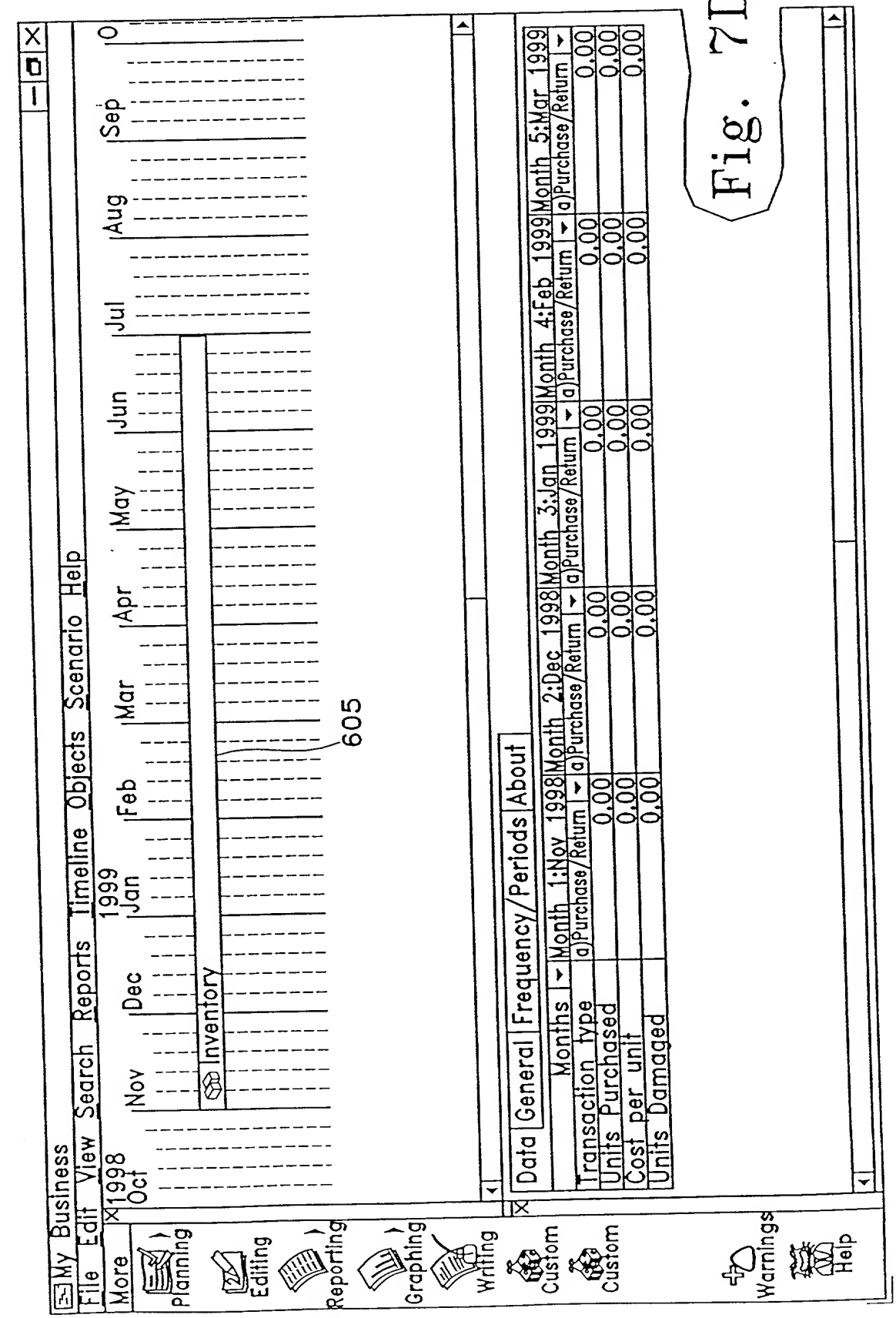

My Business
File Edit View Search Reports Timeline Objects Scenario Help
More
Planning
Editing
Reporting
Graphing
Writing
Custom
Custom
Warnings
Help
1998
Oct
Nov
Dec
1999
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
0
Inventory
605
Data General Frequency/Periods About
Months
Month 1:Nov 1998
Month 2:Dec 1998
Month 3:Jan 1999
Month 4:Feb 1999
Month 5:Mar 1999
Transaction type
a)Purchase/Return
Units Purchased
Cost per unit
Units Damaged
0.00

Fig. 7D

11/29

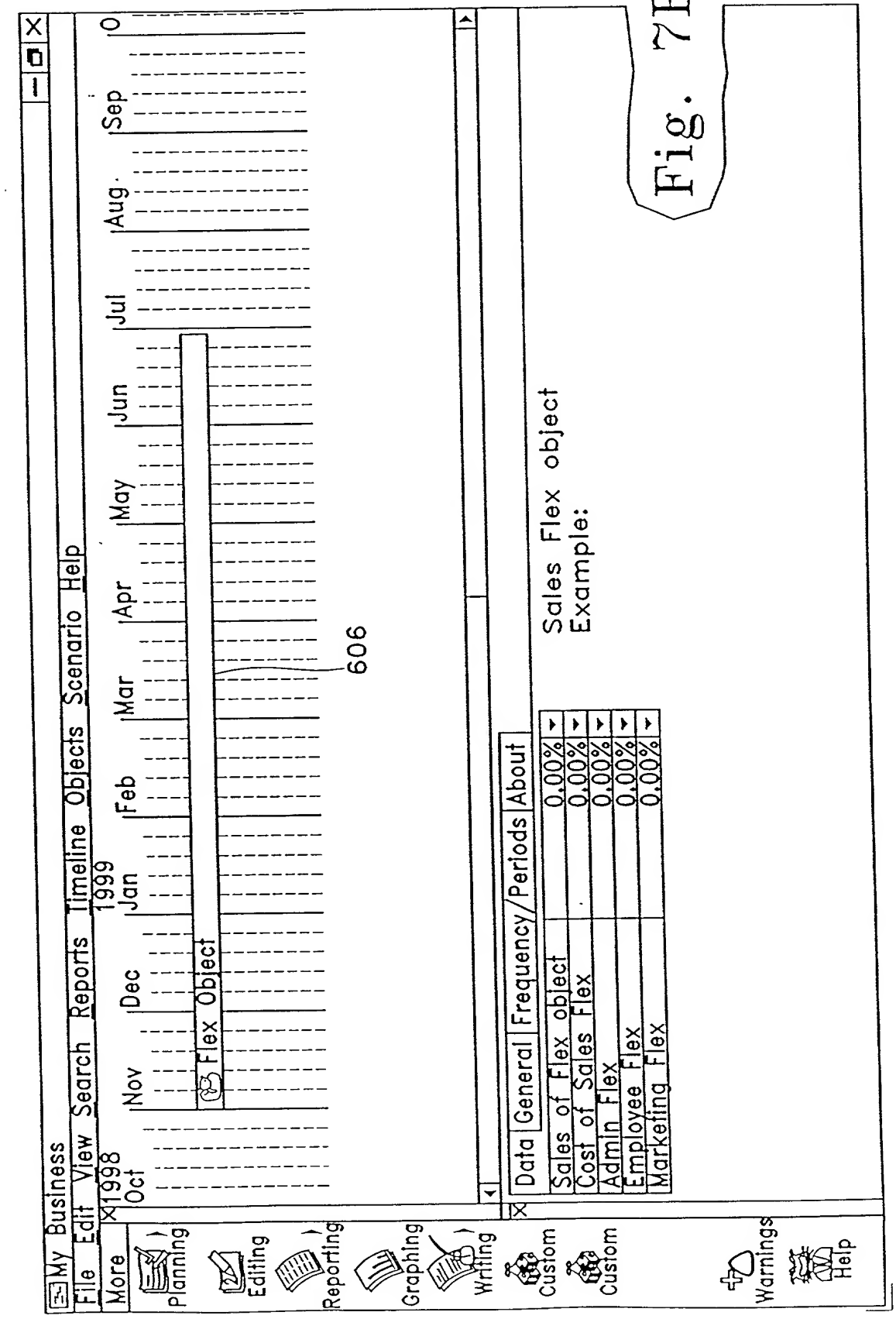


Fig. 7E

2974115 v1 "0 4/5/4001

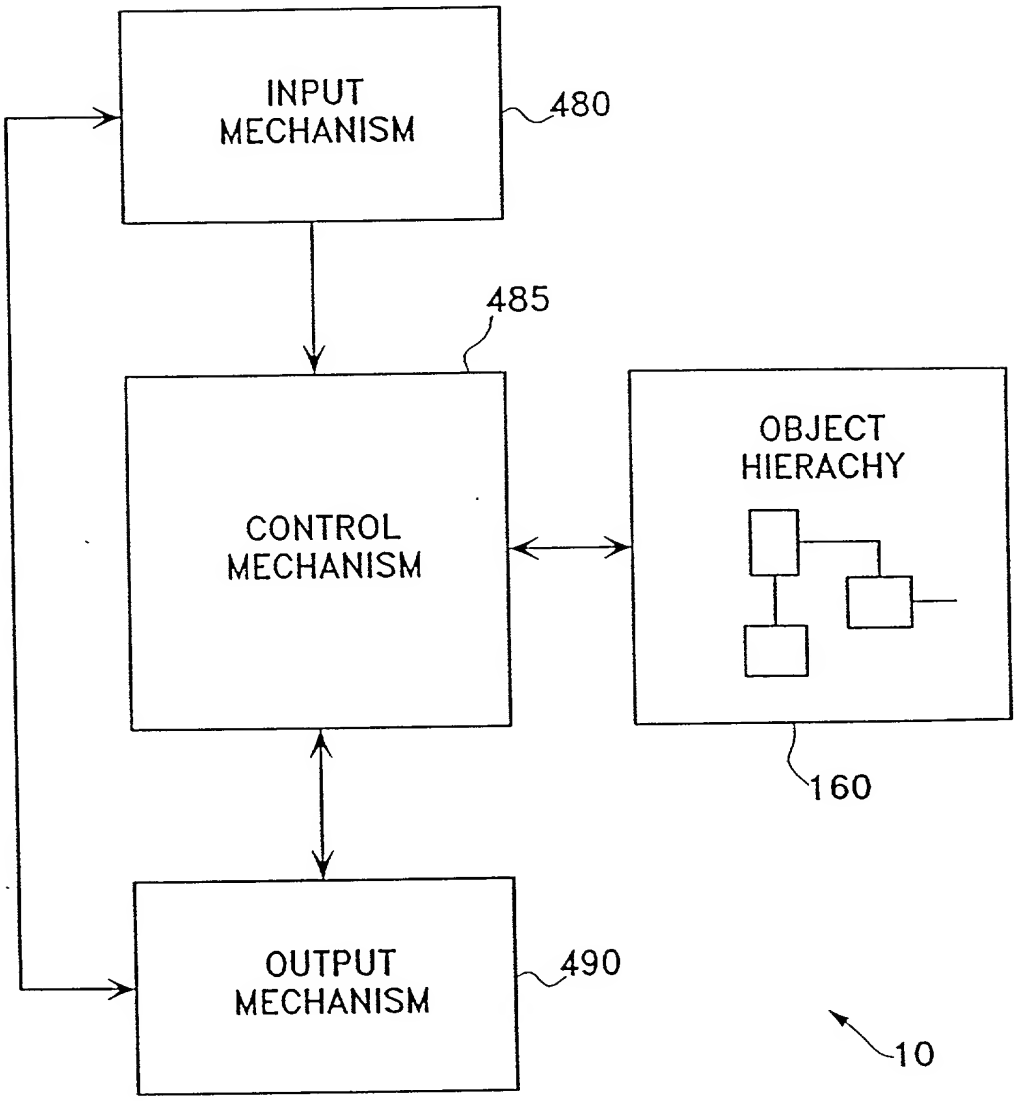

INPUT MECHANISM
480
485
CONTROL MECHANISM
OBJECT HIERACHY
160
OUTPUT MECHANISM
490
10

Fig. 8

13/29

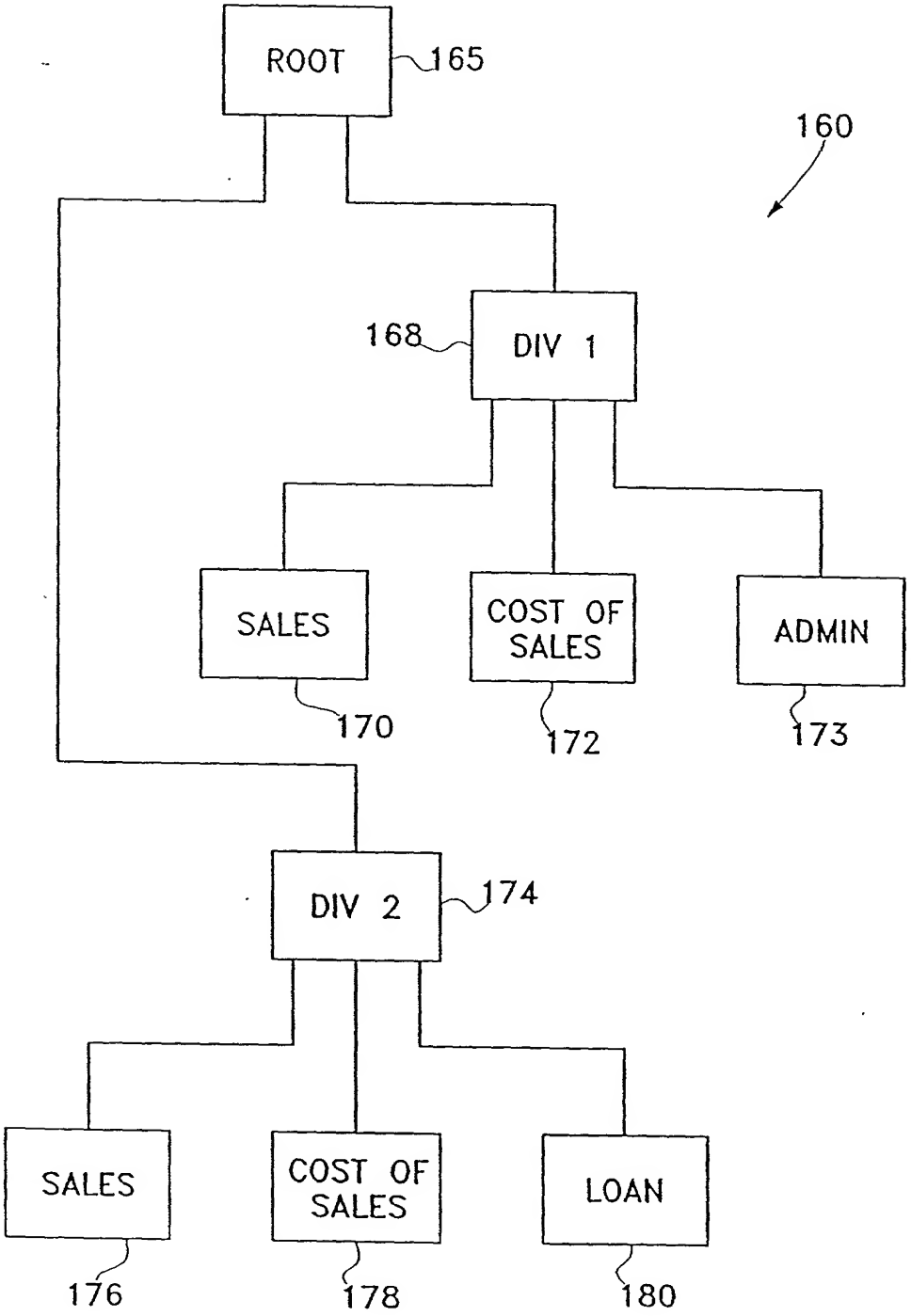

ROOT
165
160
168
DIV 1
SALES
COST OF SALES
ADMIN
170
172
173
DIV 2
174
SALES
COST OF SALES
LOAN
176
178
180

Fig. 9

Fig. 10

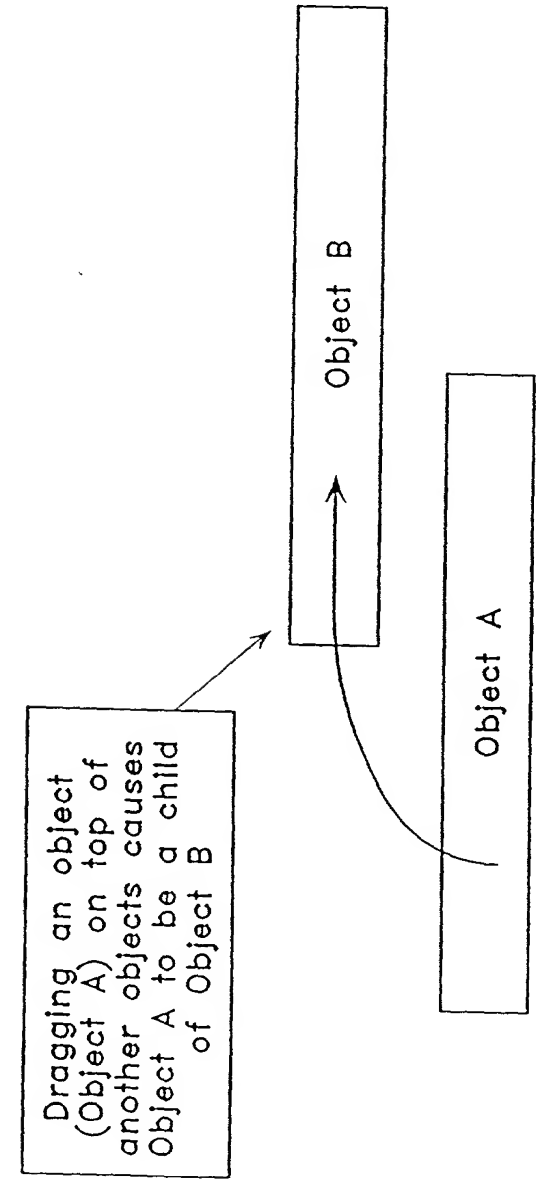
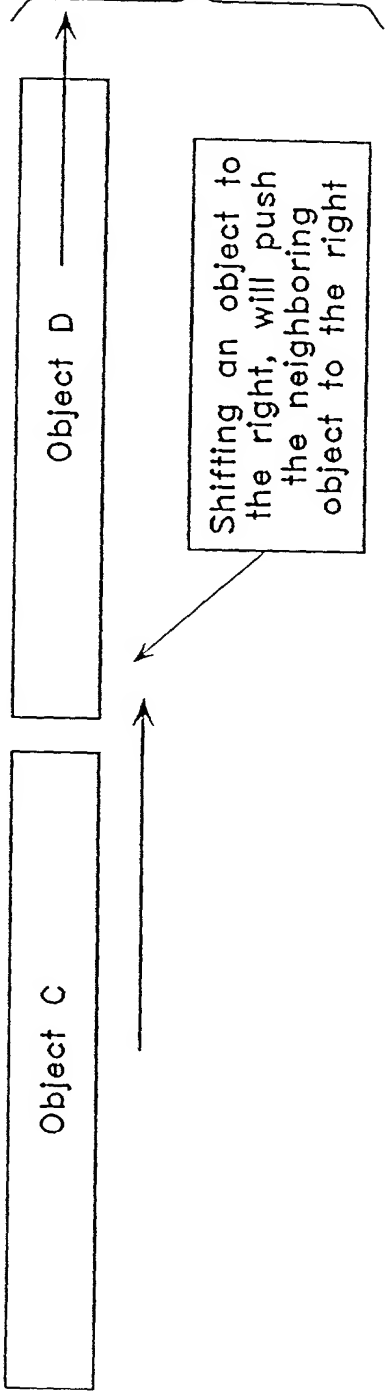


Fig. 11



ZOOM 100% 4/5/4001

15/29

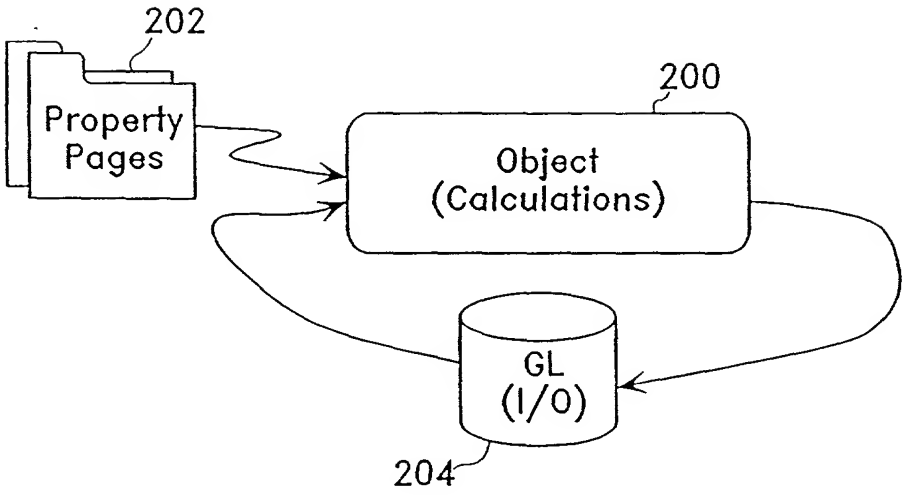


Fig. 12

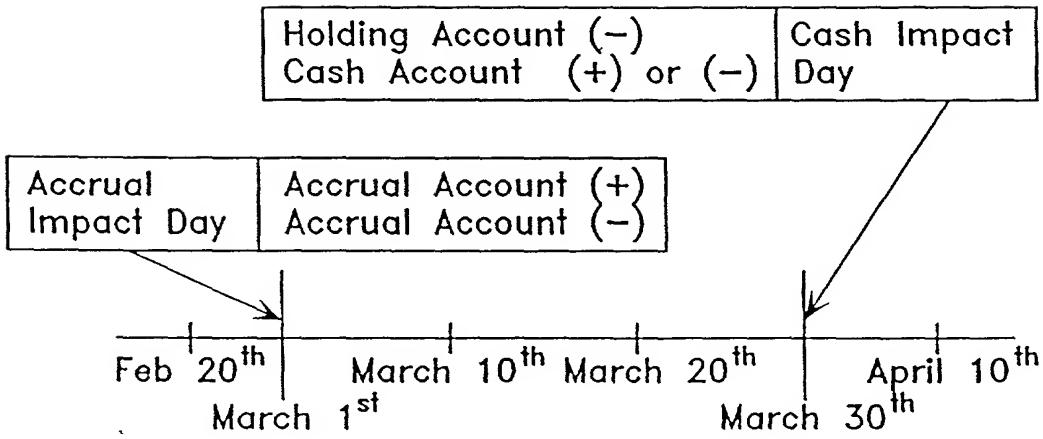


Fig. 13

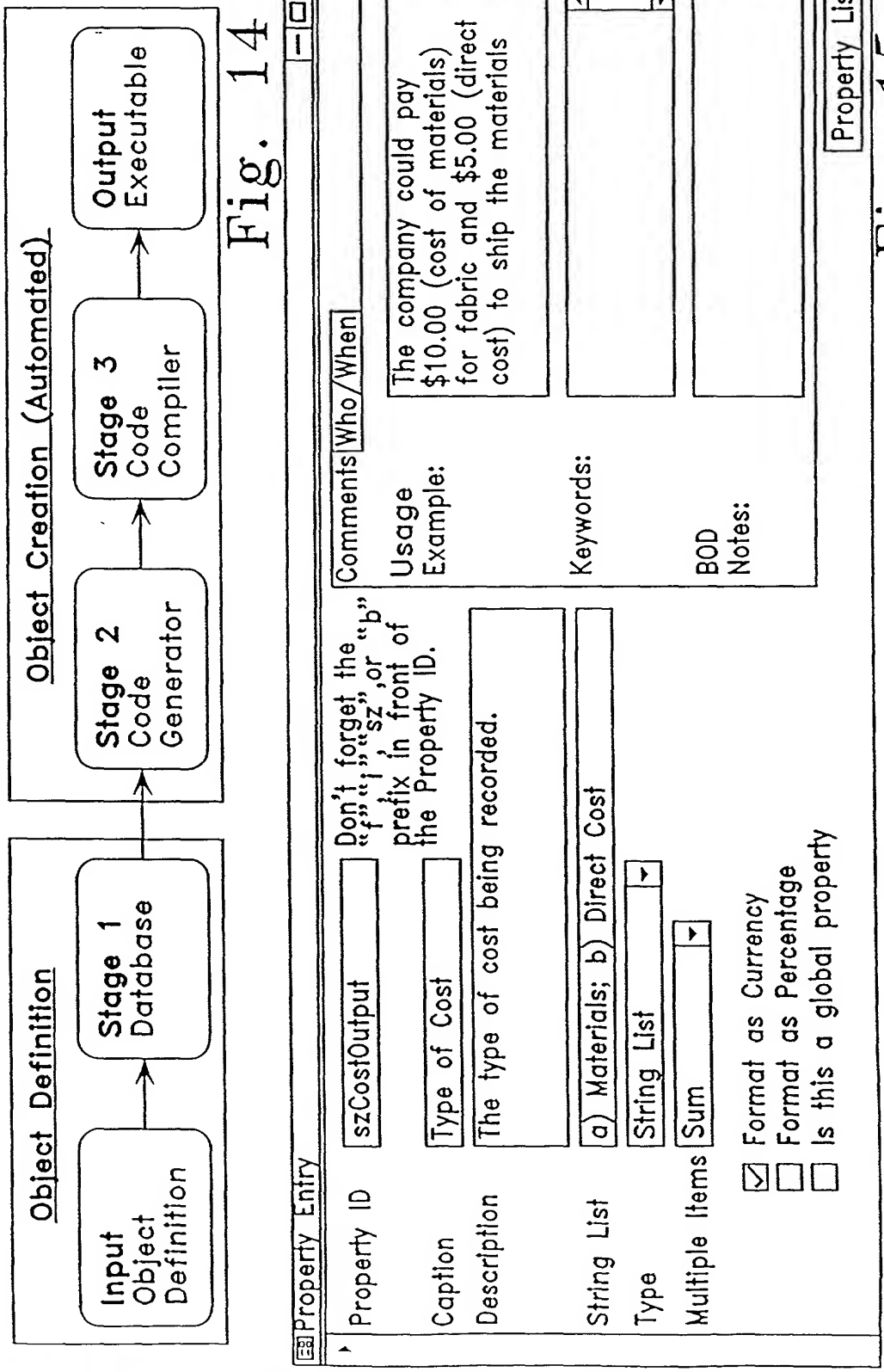

Object Definition
Input Object Definition
Stage 1 Database
Object Creation (Automated)
Stage 2 Code Generator
Stage 3 Code Compiler
Output Executable

Fig. 14

Property Entry
Property ID
szCostOutput
Don't forget the "f","i","sz",or "b" prefix in front of the Property ID.
Caption
Type of Cost
Description
The type of cost being recorded.
String List
a) Materials; b) Direct Cost
Type
String List
Multiple Items
Sum
Format as Currency
Format as Percentage
Is this a global property
Comments
Who/When
Usage Example:
The company could pay $10.00 (cost of materials) for fabric and $5.00 (direct cost) to ship the materials
Keywords:
BOD Notes:
Property List

Fig. 15

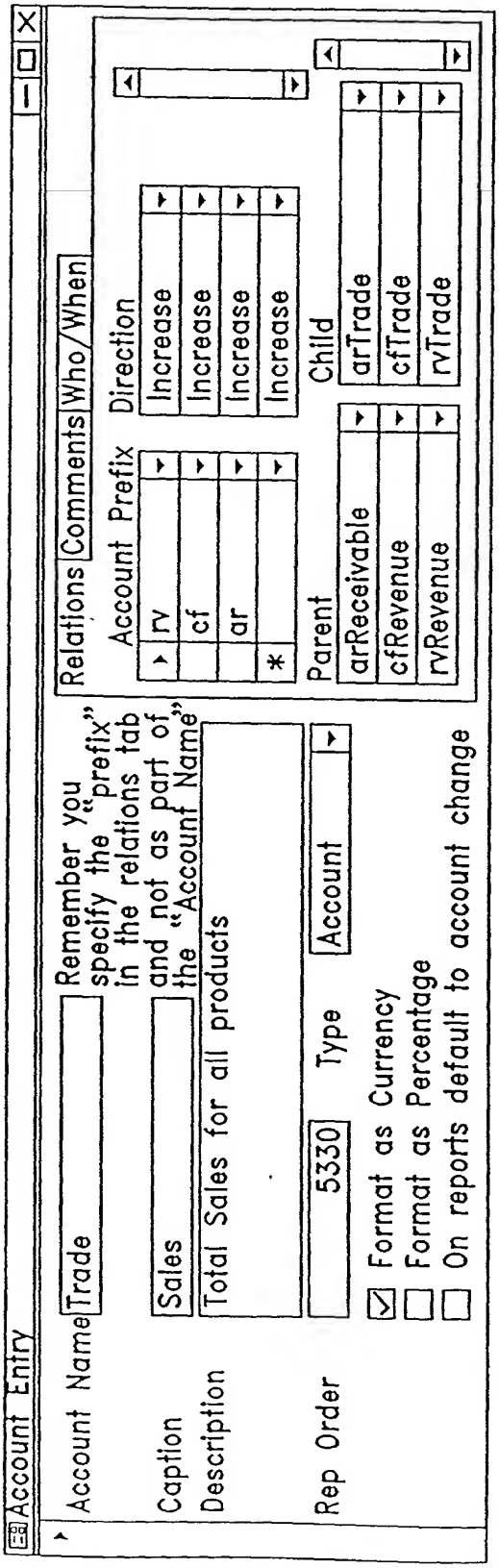

Account Entry
Account Name Trade
Caption Sales
Description Total Sales for all products
Rep Order 5330
Type Account
Format as Currency
Format as Percentage
On reports default to account change
Remember you specify the "prefix" in the relations tab and not as part of the "Account Name"
Relations Comments Who/When
Account Prefix
Direction
Parent
Child
rv
cf
ar
*
Increase
arReceivable
cfRevenue
rvRevenue
arTrade
cfTrade
rvTrade

Fig. 16

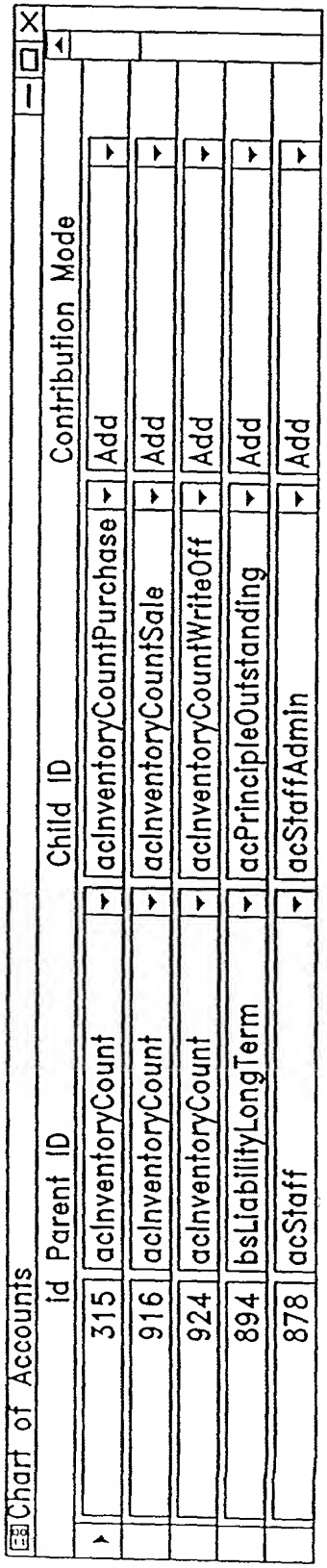


Chart of Accounts
Id Parent ID
Child ID
Contribution Mode
315 acInventoryCount acInventoryCountPurchase Add
916 acInventoryCount acInventoryCountSale Add
924 acInventoryCount acInventoryCountWriteOff Add
894 bsLiabilityLongTerm acPrincipleOutstanding Add
878 acStaff acStaffAdmin Add

Fig. 17

18/29

Object
Name
Sales
Lookup...
Calculations
Input Details
Criteria
User Notes
Development Notes
Children
Input Summary
Property ID
Order
Caption
Default
Read Only
Show
s:SalesType
1
Sales are in:
b) Dollars
fNumSale
2
Number of units
fUnitPrice
3
Unit price
fRevenueAmount
5
Revenue amount
fSalesTax
6
Sales Tax
f:MarketingSalesType
100
Resulting Sales based on:
0
101
1
Calculations
Calculation Options
Description:
update the inventory on hand if this is a sale
C++ Code
Output Account
ocInventoryCountSale
Equation
([szSalesType]**"a")?[=sNumSale]:0
Record:
1
of 5
Copy
Print Current Object
Maintain Properties
Record:
39
50

Fig. 18

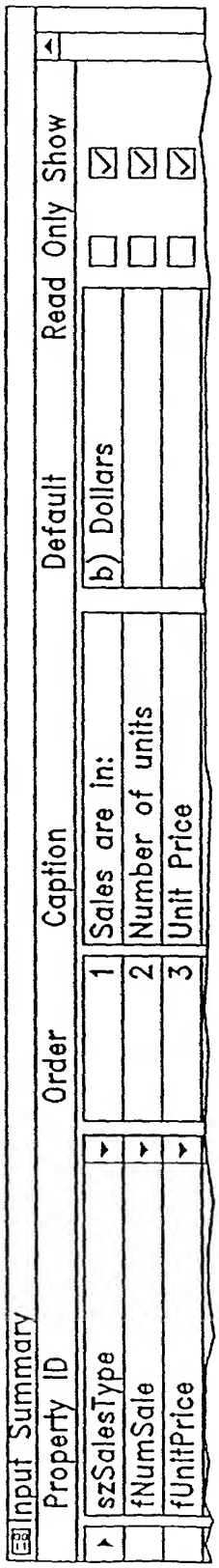

Input Summary
Property ID
Order
Caption
Default
Read Only
Show
szSalesType
fNumSale
fUnitPrice
1
2
3
Sales are in:
Number of units
Unit Price
b) Dollars

Fig. 18A

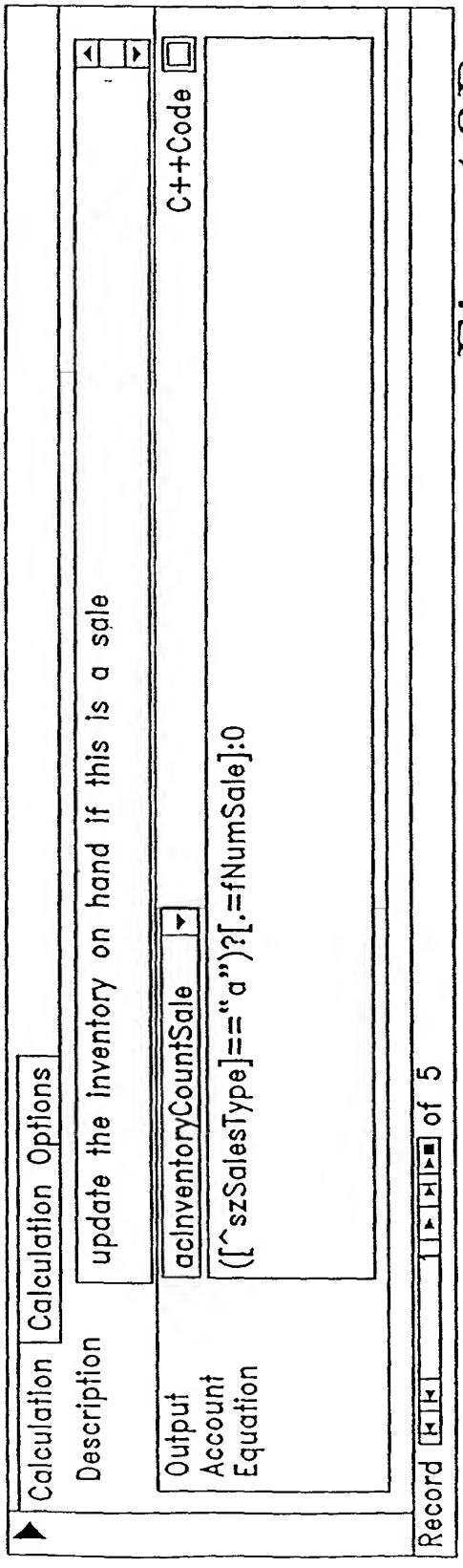


Fig. 18B

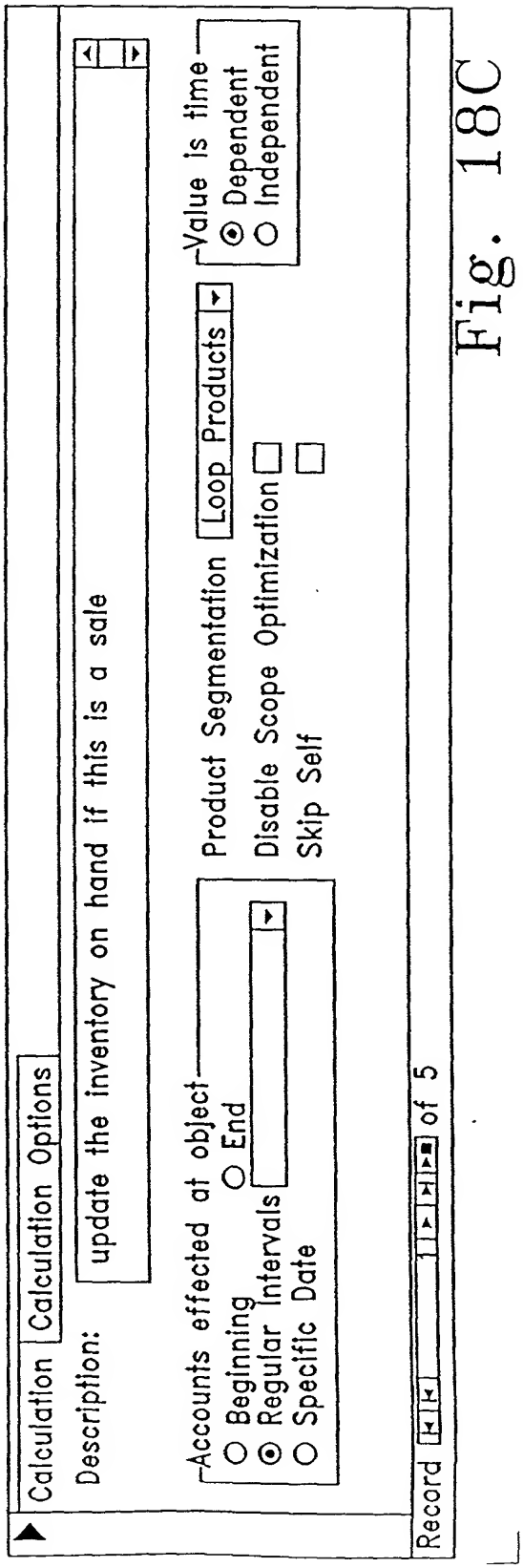
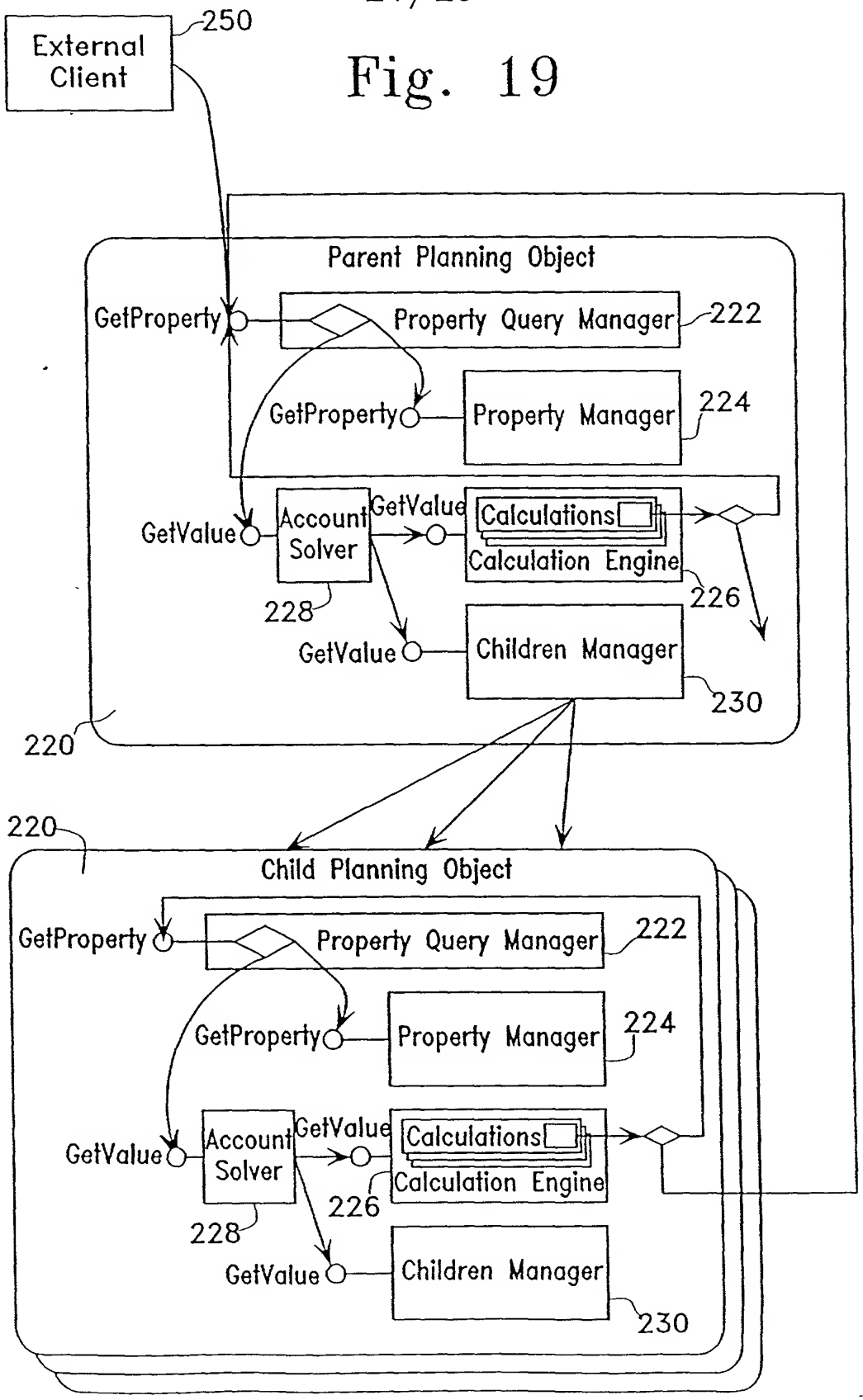


Fig. 18C

21/29

Fig. 19


External Client
250
Parent Planning Object
GetProperty
Property Query Manager
222
GetProperty
Property Manager
224
GetValue
Account Solver
GetValue
Calculations
Calculation Engine
226
228
GetValue
Children Manager
230
220
220
Child Planning Object
GetProperty
Property Query Manager
222
GetProperty
Property Manager
224
GetValue
Account Solver
GetValue
Calculations
Calculation Engine
226
228
GetValue
Children Manager
230

22/29

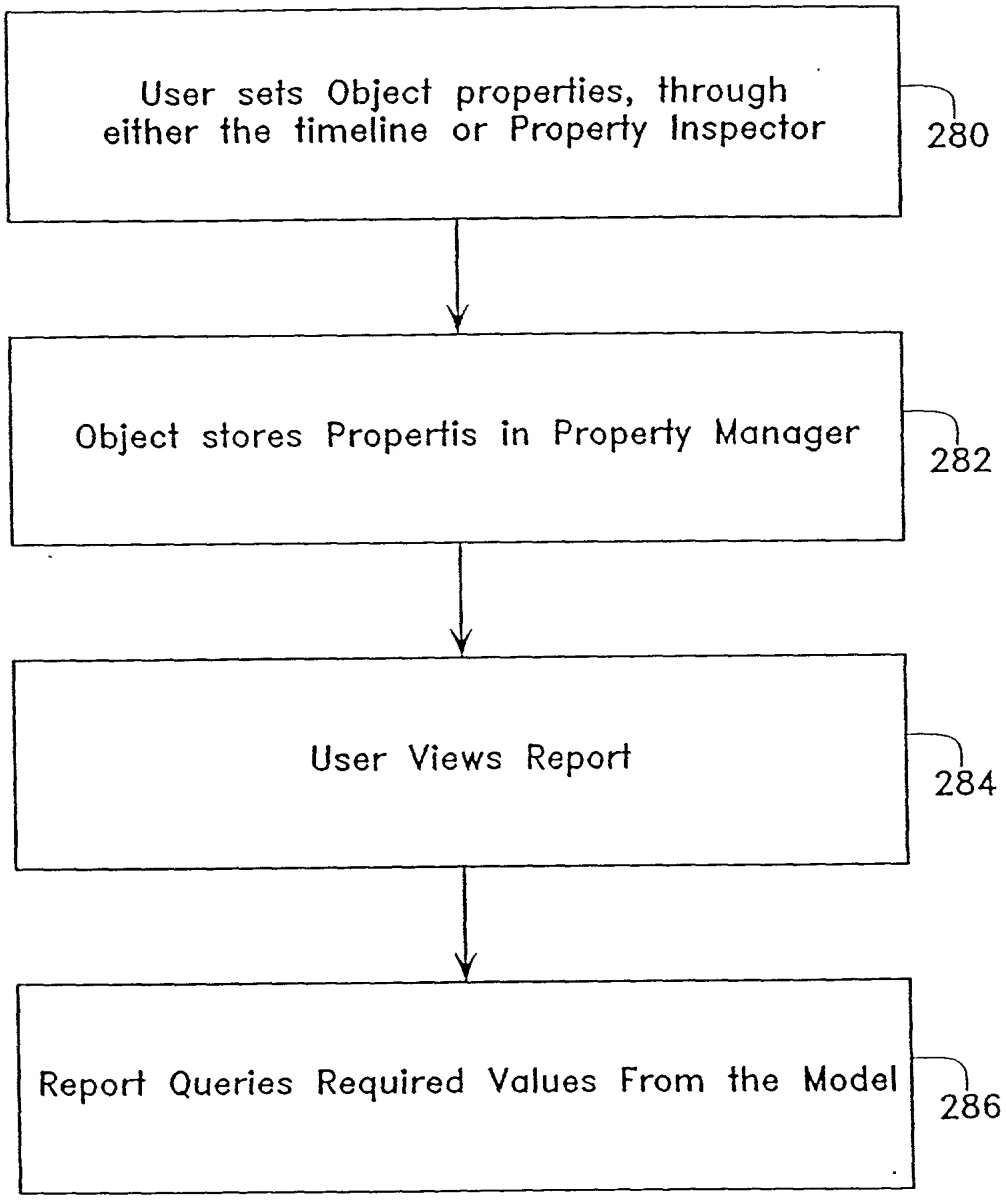

User sets Object properties, through either the timeline or Property Inspector
280
Object stores Propertis in Property Manager
282
User Views Report
284
Report Queries Required Values From the Model
286

Fig. 20

Fig. 21

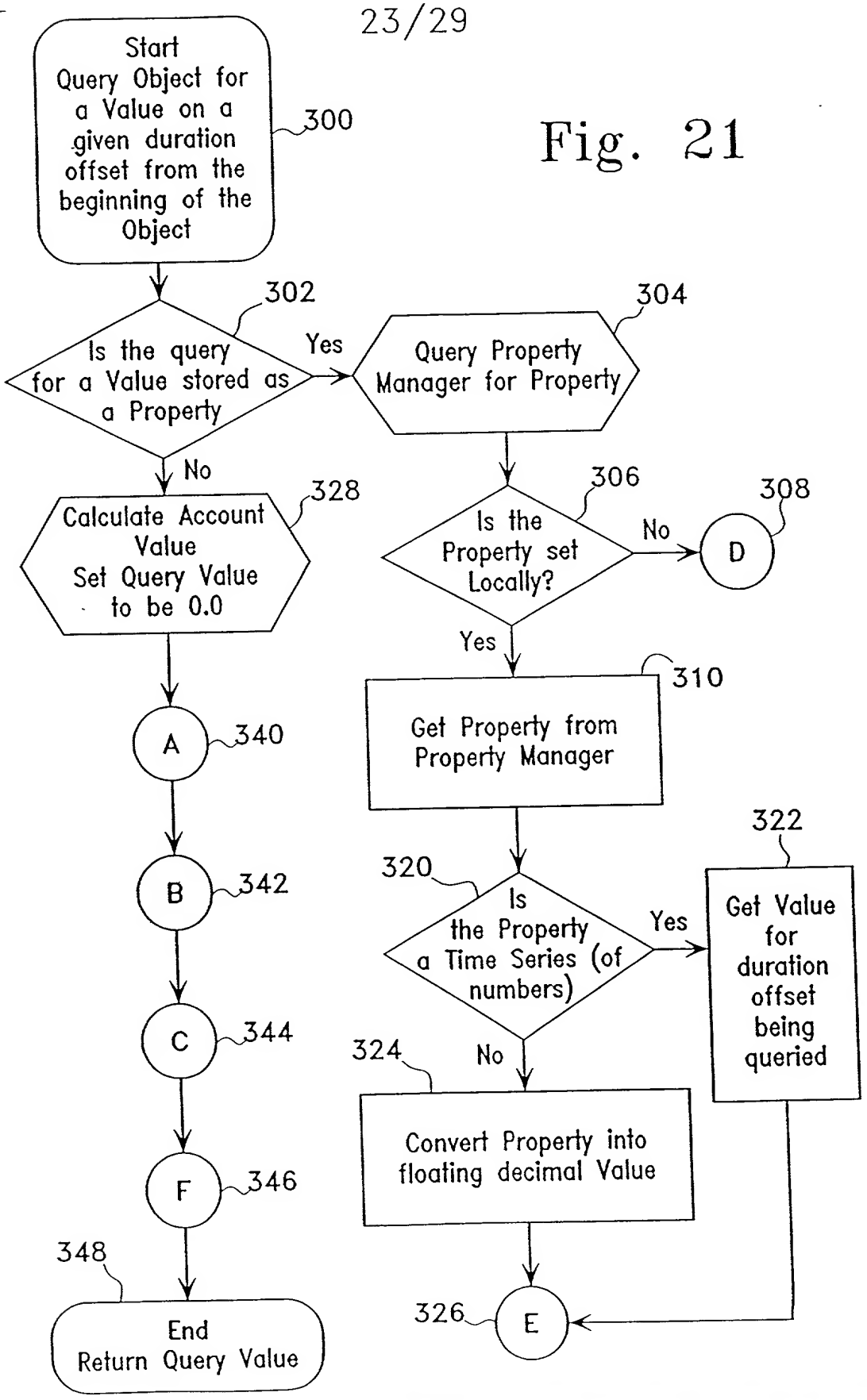
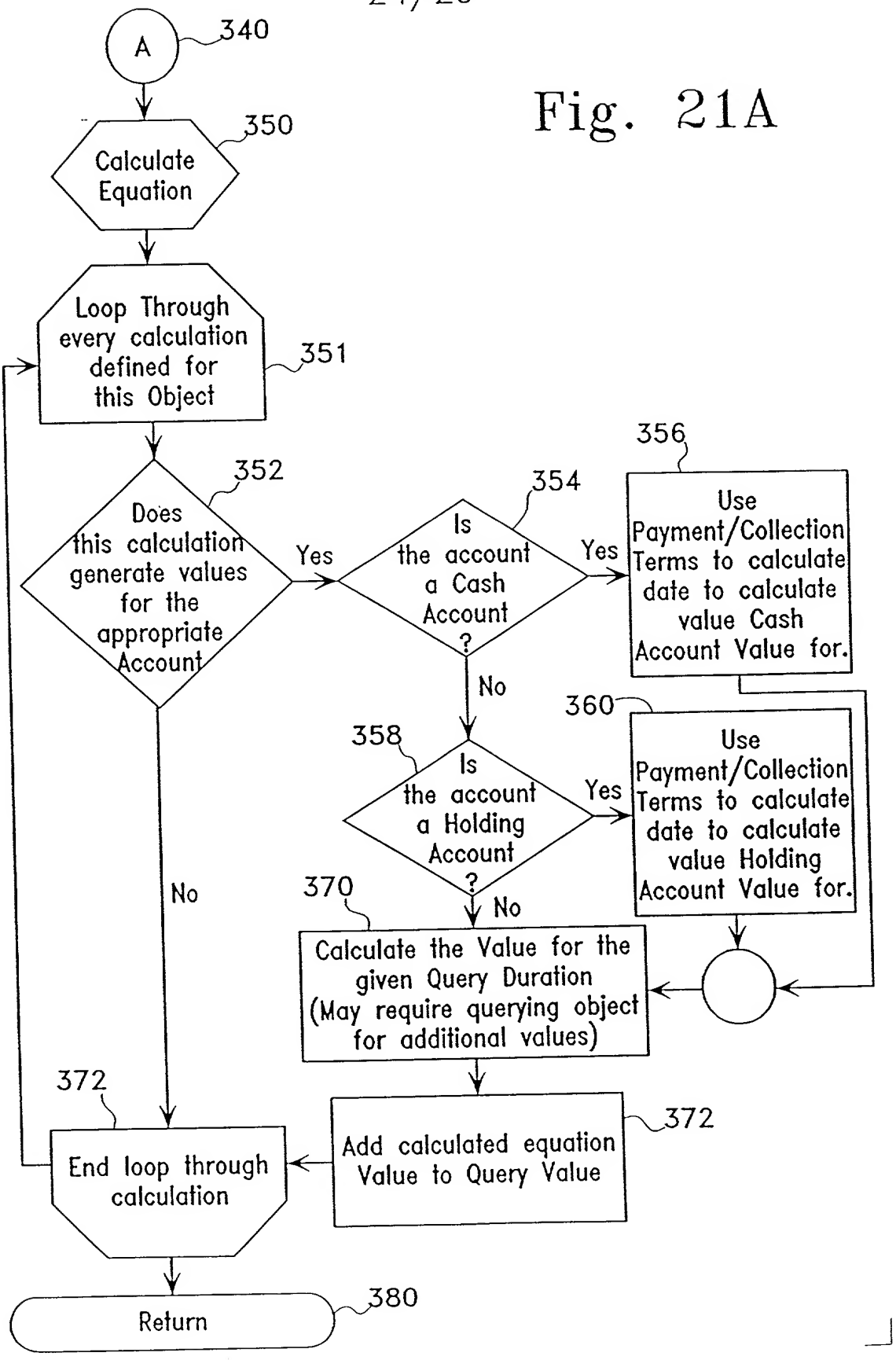

Start Query Object for a Value on a given duration offset from the beginning of the Object
300
Is the query for a Value stored as a Property
302
Yes
No
Query Property Manager for Property
304
Is the Property set Locally?
306
No
308
D
Yes
Calculate Account Value Set Query Value to be 0.0
328
Get Property from Property Manager
310
A
340
B
342
C
344
F
346
348
End Return Query Value
320
Is the Property a Time Series (of numbers)
Yes
322
Get Value for duration offset being queried
No
324
Convert Property into floating decimal Value
326
E

Fig. 21A



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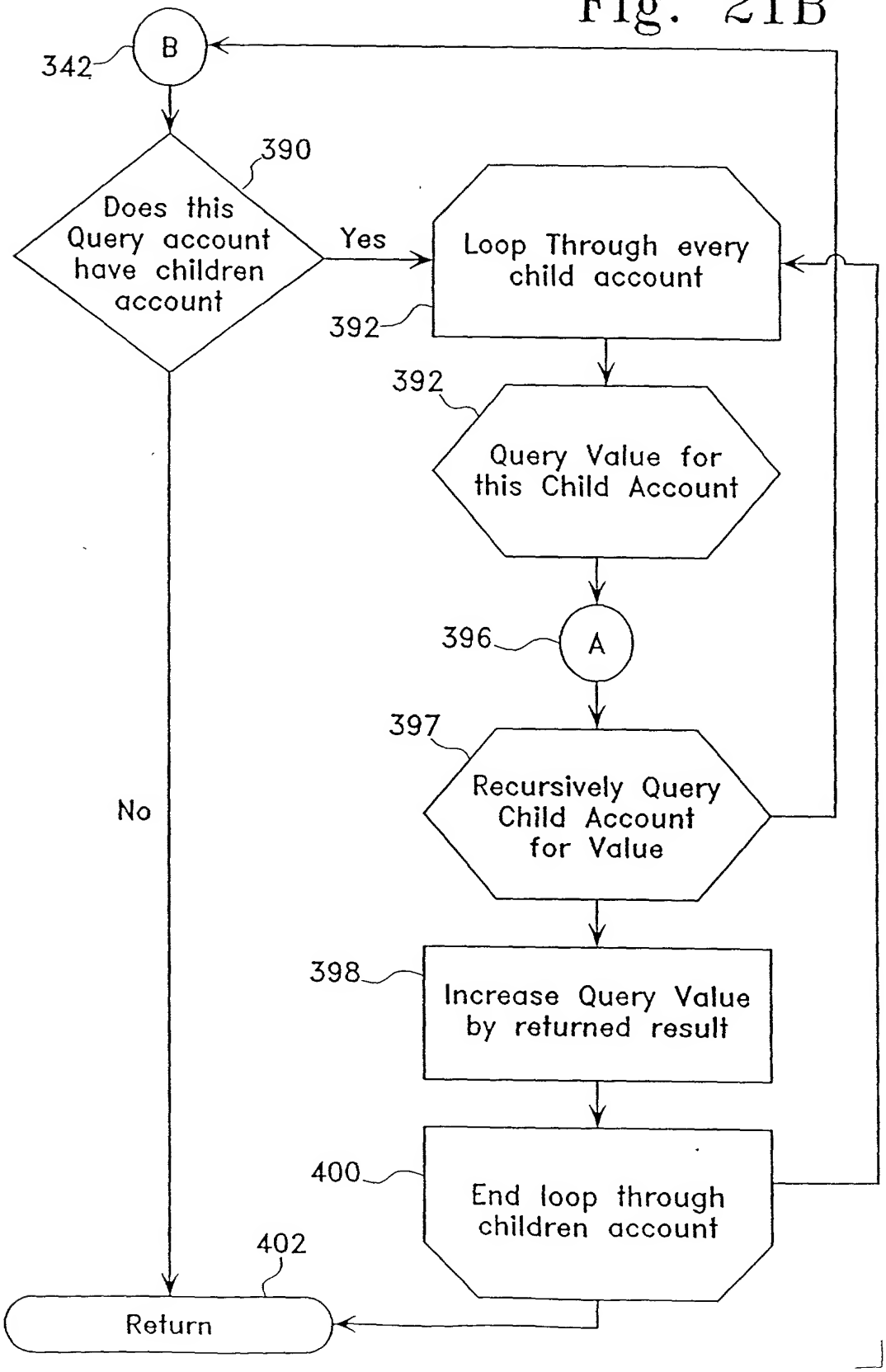
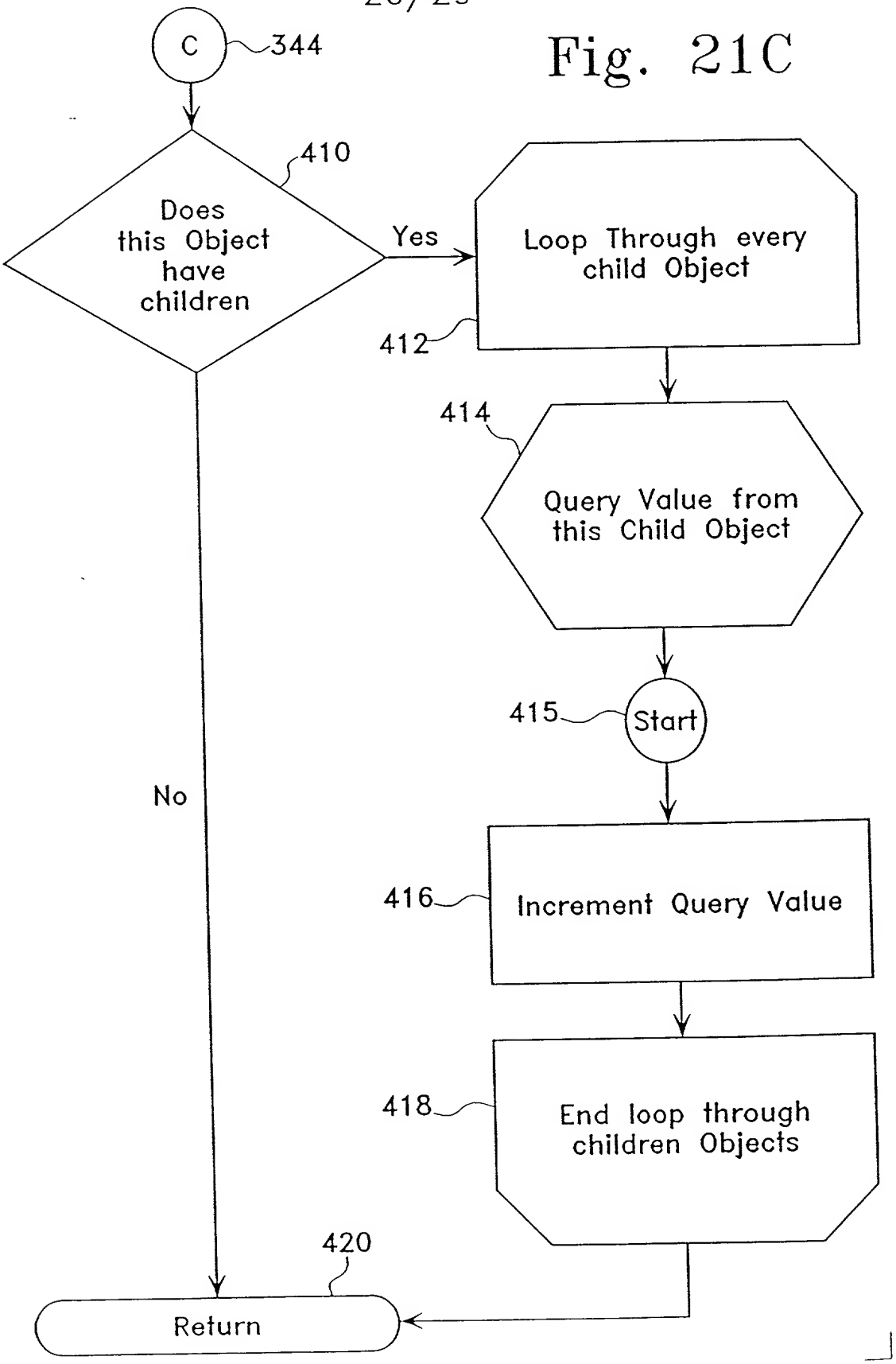
25/29

Fig. 21B


342
B
390
Does this Query account have children account
Yes
No
Loop Through every child account
392
392
Query Value for this Child Account
396
A
397
Recursively Query Child Account for Value
398
Increase Query Value by returned result
400
End loop through children account
402
Return

26/29

Fig. 21C


C
344
410
Does this Object have children
Yes
Loop Through every child Object
412
414
Query Value from this Child Object
415
Start
No
416
Increment Query Value
418
End loop through children Objects
420
Return

27/29

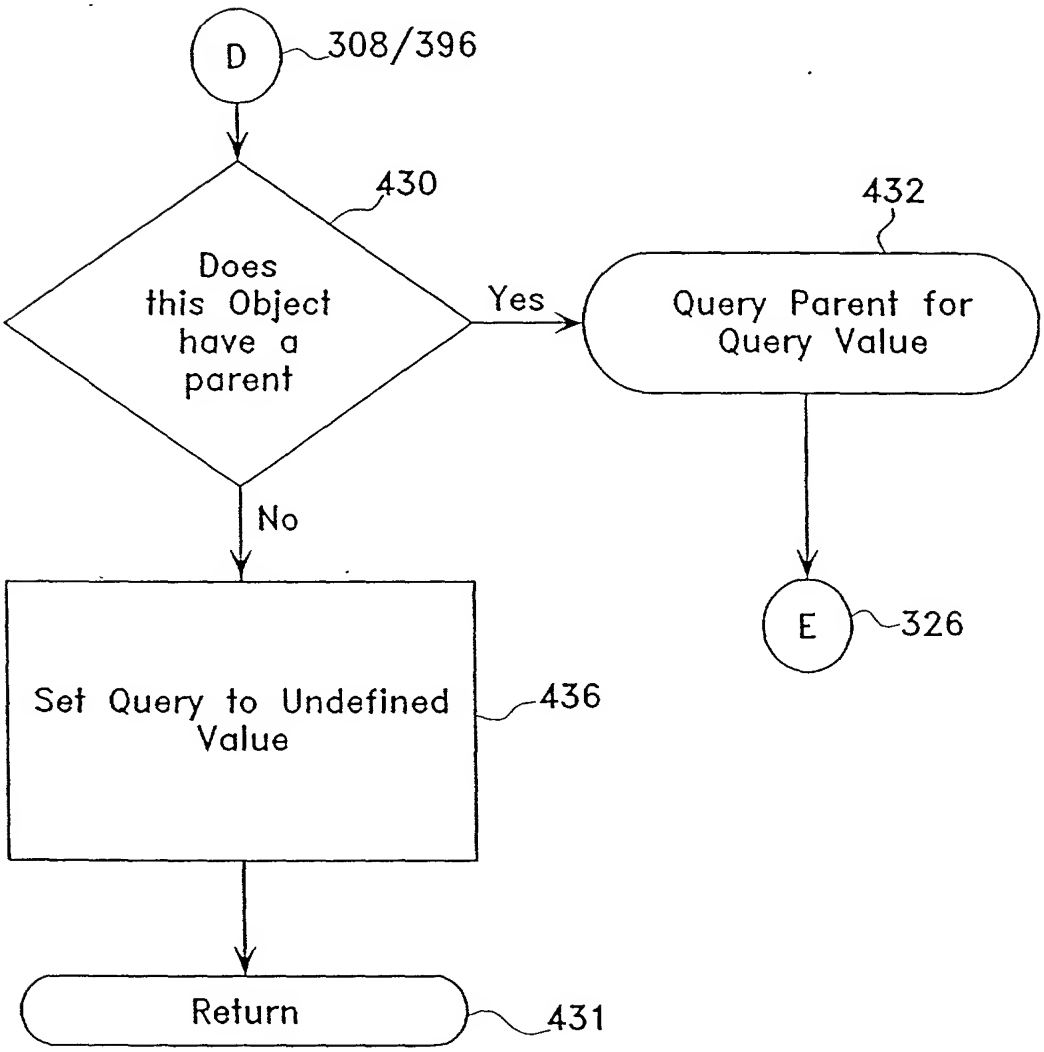
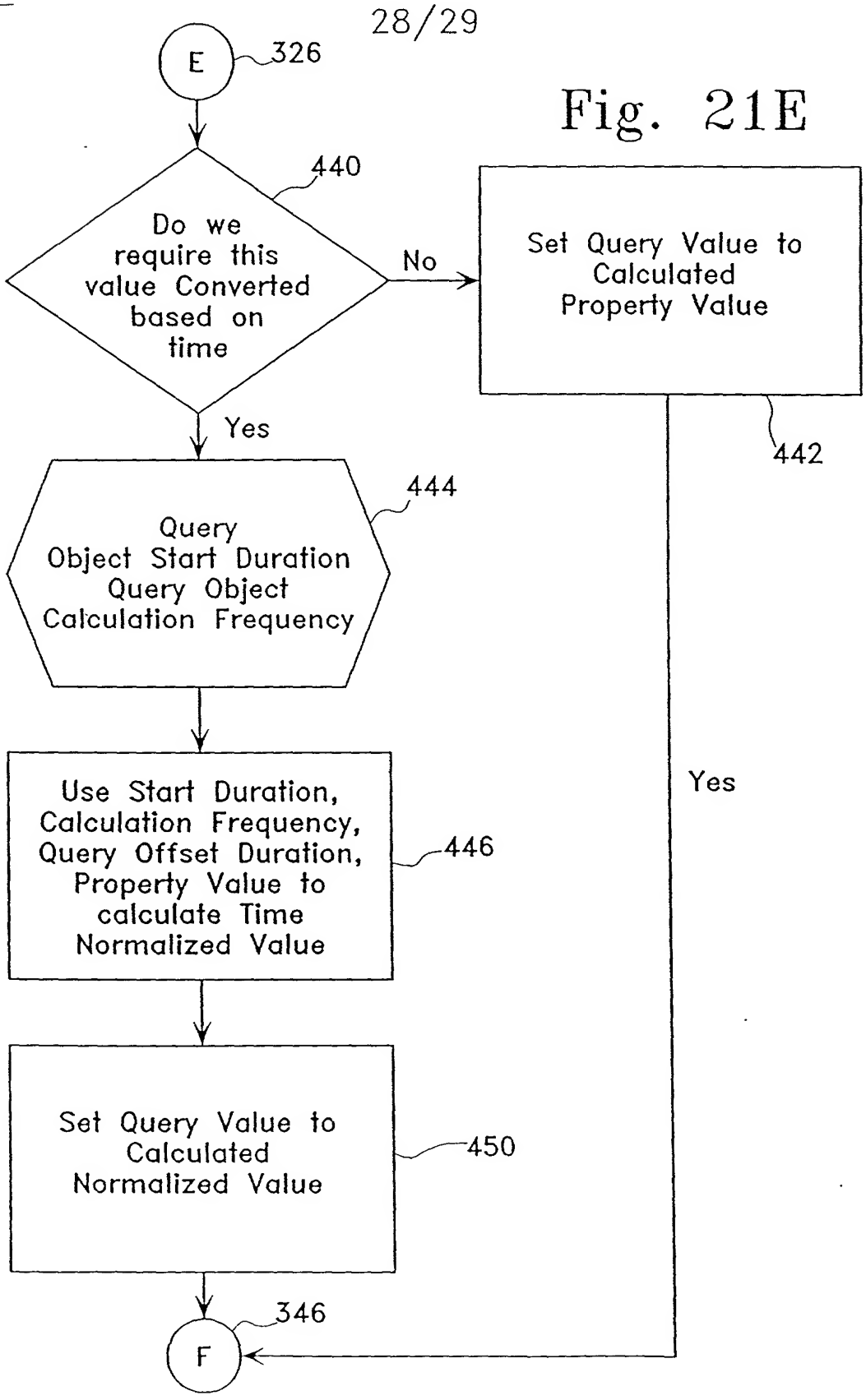

D
308/396
430
Does this Object have a parent
Yes
432
Query Parent for Query Value
No
E
326
Set Query to Undefined Value
436
Return
431

Fig. 21D

2764.1S.96.7.94.02

28/29

Fig. 21E



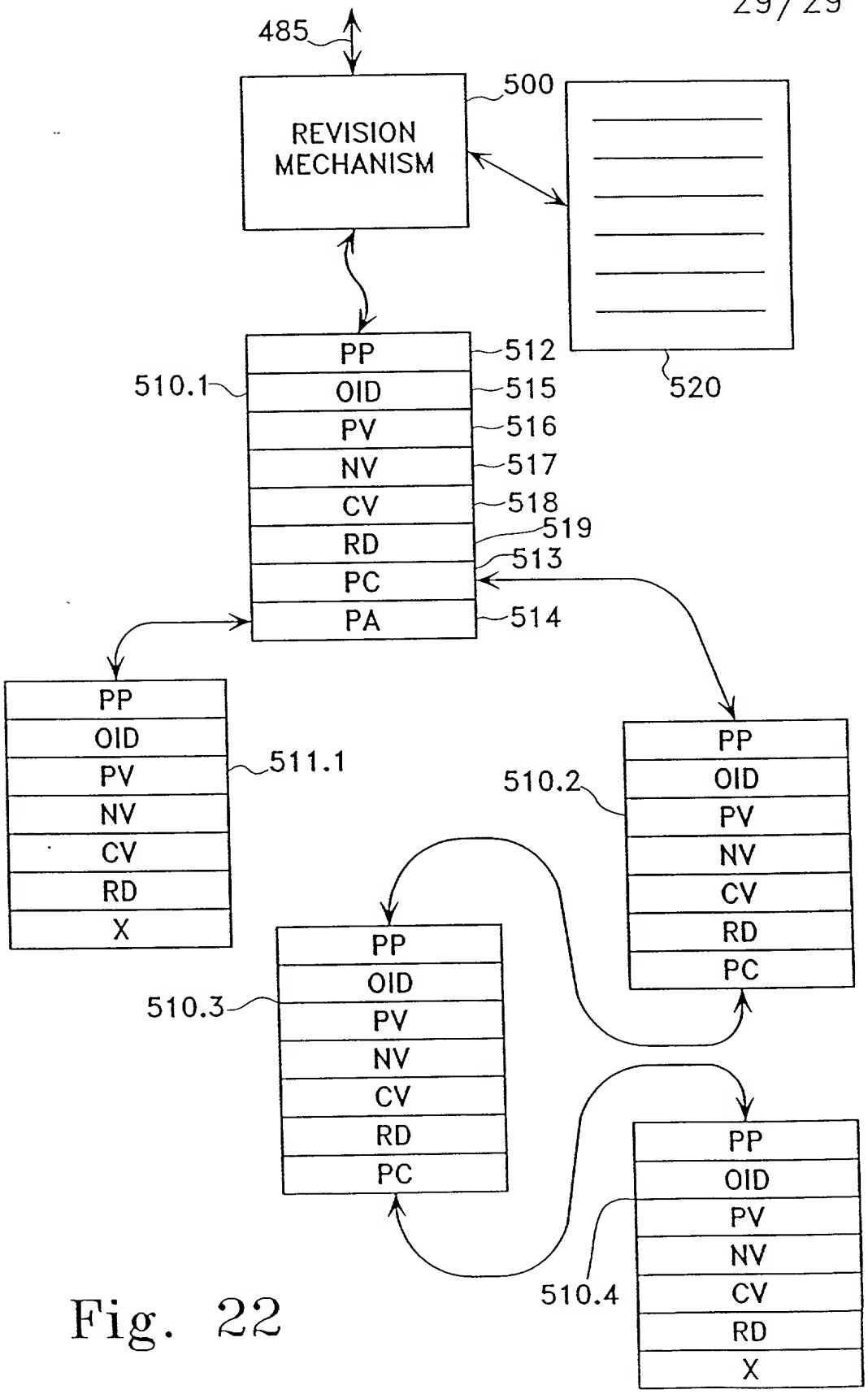


Fig. 22

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